

3384/6881  
**FIGURE 3119**

GGGGCCAGACGCCAAGAGGGGCGCGGGGAGCACAGAGAAGCGGAGGGAAGGGCGCCACGTCGAGGGGCCGGGGGA  
GGCGGTGACTGGGGGGCGGAGTGGAGGCTGCACCCGACCGCGGGCGCCCAGCTCGGTTTGGGCGGACGGAGCCC  
TCTGCCGTCGCGAGCCCGGGCCTCGGGAGGGGGACAGGCGGTGGCGGCACCGGGGCCGCTCCGGGACGCAGCGCG  
GAAAGGGGAGCGGCCCCGAGGCTGCGCGCCGGGGGGAGGGCTGGAGGGGGAGCGCTTTGGGGGGTTACAACGCCGG  
CGGCCTGCGAGCGGACTGCCTGCGGGGGGAACCGCCTCCTCGGGCGAAGCGGGGATGGGGGGAGTTGAGGTAGA  
TGAAGAGGAGGCGGCGGGGAATCCGCAGGCCCGGCGGAGCGCGACCCCGCGGACGGCGCCCGGGACGGGAGTCAG  
CAGCGAGGCAGCGGGCGGCGTCGACGCGGGGCCGCTTGCCCGATGGAGGCGCTGGTGGGCAGAGCGCGGGCAGG  
CGTGGGCCAGGAGGCGGGGGCGGCCGAAGGGGGGGGCCGGGGCCGGCCGGGCCTCACGCAGCTCCGCCG

3385/6881  
**FIGURE 3120**

TTCTCCCGCAACCTTCCCTTCGCTCCCTCCCGTCCCCCCCAGCTCCTAGCCTCCGACTCCCTCCCCCCCCTCACGC  
CCGCCCTCTCGCCTTCGCCGAACCAAGTGGATTAAATTACACGCTTTCTGTTTCTCTCCGTGCTGTTCTCTCCCC  
CTGTGCGCCTGCCCGCCTCTCGCTGTCTCTCTCCCCCTCGCCCTCTCTTCGGCCCCCCCCCTTTCACGTTCACTC  
TGTCTCTCCCACTATCTCTGCCCCCTCTATCCTTGATAACAACAGCTGACCTCATTTCCTCGATACTTTTTCCCC  
CCGAAAAGTACAACATCTGGCCCCGCCCGAGCCCGAAGACAGCCCGTCTCCTTGGACAATCAGACGAATTCTCCC  
CCCCCCCCCAAAAAAAAAAGCCATCCCCCGCTCTGCCCGTCTGCACATTTCGGCCCCCGCGACTCGGCCAGAGCG  
GCGCTGGCAGAGGAGTGTCCGGCAGGAGGGCCAACGCCCGCTGTTTCGGTTTTCGGACACGCAGCAGGGAGGTGGGC  
GGCAGCGTCTGCCGGCTTCCAGACACCAATGGGAATCCCAATGGGGAAGTCGATGCTGGTGCTTCTCACCTTCTTG  
GCCTTCGCCTCGTGCTGCATTGCTGCTTACCGCCCCAGTGAGACCCCTGTGCGCGCGGGGAGCTGGTGACACCCCTC  
CAGTTCGTCTGTGGGGACCGGGCTTCTACTTCAGCAGGCCCGCAAGCCGTGTGAGCCGTCTGCAGCCGTGGCATC  
GTTGAGGAGTGTGTTTCCGCAGCTGTGACCTGGCCCTCCTGGAGACGTACTGTGCTACCCCCGCCAAGTCCGAG  
AGGGACGTGTGACCCCTCCGACCGTGCTTCCGGACAACCTCCCCAGATACCCCGTGGGCAAGTTCTTCCAATAT  
GACACCTGGAAGCAGTCCACCCAGCGCCTGCGCAGGGGGCTGCCTGCCCTCCTGCGTGCCCGCCGGGGTTCACGTG  
CTCGCCAAGGAGCTCGAGGCGTTCAGGGAGGCCAAACGTACCCGTCCCCTGATTGCTCTACCCACCCAAGACCCC  
GCCCACGGGGGCGCCCCCAGAGATGGCCAGCAATCGGAAGTCAGCAAACTGCCGCAAGTCTGCAGCCCGGGC  
CCACCATCCTGCAGCCTCCTCCTGACCACGGACGTTTCCATCAGGTTCCATCCCGAAAATCTCTCGGTTCCACGT  
CCCCCTGGGGCTTCTCCTGACCCAGTCCCCGTGCCCCGCTCCCCGAAACAGGCTACTCTCCTCGCCCCCTCCA  
TCGGGCTGAGGAAGCACAGCAGCATCTTCAAACATGTACAAAATCGATTGGCTTTAAACACCCTTCACATACCCT  
CCCCC



3386/6881

**FIGURE 3121**

MGIPMGKSMVLVLLTFLAFASCCIAAYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGIVEECCFRSC  
DLALLETYCATPAKSERDVSTPPTVLPDNFPRIYPVGKFFQYDTWKQSTQRLRRGLPALLRARRGHVLAKELEAFR  
EAKRHRPLIALPTQDPAHGGAPPEMASNRK

3387/6881  
**FIGURE 3122**

CATACATGAACACAGCTCACAGCACACAAACACGCAGCCCGACTAGCAGTCTAGAGGCCTGAGGCTTCTGGGTCC  
TGGTGACGGGGCTGGCATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCCTCGGCAAGC  
GCCCTGTGAGTGGGCCATTGGAACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGGAACCCACAT  
TGGCCTGAGATCCAAAACGCTTCGAGGCACCCCAAATTACCTGCCCATTTCGTCAGGACACCCACCCACCCAGTGT  
TATATTCTGCCTCGCCGGAGTGGGTGTTCCCGGGGGCACTTGCCGACCAGCCCTTGCGTCCCCAGGTTTGAGC  
TCTCCCCTGGGCCACTAACCATCCTGGCCGGGCTGCCTGTCTGACCTCCGTGCCTTAGTCGTGGCTCTCCATCTT  
GTCTCCTCCCCGTGTCCCAATGTCTTCAGTGGGGGGCCCC

3388/6881  
**FIGURE 3123**

· MTPGVVHASPPQSQRVPRQAPCEWAI RNIGQKPKEPNCHNCGTHIGLRSKTLRGTPNYLP IRQDTHPPSVIFCLA  
GVGVPGGTCRPAPCVPRFAALPWATNHPGPGCLSDLRA

3389/6881  
**FIGURE 3124**

CCAAATTAAACCCCCCCCCCATGTAACAGGGGGGCAGTGACAAAAGCAAGAACGCACGAAGCCAGCCTGGAGACC  
ACCACGTCCIGCCCCCGCCATTTATCGCCCTGATTGGATTTTGTTCATCTGTCCCTGTTGCTTGGGTTGAG  
TTGAGGGTGGAGCCTCCTGGGGGGCACTGGCCACTGAGCCCCCTTGGAGAAGTCAGAGGGGAGTGGAGAAGGCCA  
CTGTCCGGCCTGGCTTCTGGGGACAGTGGCTGGTCCCCAGAAGTCCTGAGGGCGGAGGGGGGGGTGGGCAGGGT  
CTCCTCAGGTGTCAGGAGGGTGTCTGGAGGCCACAGGAGGGGGCTCCTGGCTGGCCTGAGGCTGGCCGGAGGGGA  
AGGGGCTAGCAGGTGTGTAAACAGAGGGTTCCATCAGGCTGGGGCAGGGTGGCCGCCTTCCGCACACTTGAGGAA  
CGGCGGGTCTGAGCCACAGAGCAGGAGAGCTGCCAGGTCTGCCCATCGACCAGGTGCTTGGGCCCCGGAGCCC  
ACGGGTCTGGTGATGCCATAGCAGCCACCACCGCGCGCCTAGGGCTGCGGCAGGGACTCGGCCTCTGGGAGGTT  
TACCTCGCCCCACTTGTGCCCCAGCTCAGCCCCCTGCACGCAGCCGACTAGCAGTCTAGAGGCCTGAGGCT  
TCTGGGTCTGTGACGGGGCTGGCATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCC  
TCGGCAAGCGCCCTGTGAGTGGGCCATTTCGGAACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGG  
AACCACATTGGCCTGAGCCACCCAGTGTTATATTCTGCCTCGCCGGAGTGGGTGTCCCGGGGGCACTTGCCG  
ACCAGCCCCCTTGCCTCCCCAGGTTTGCAGCTCTCCCTGGGCCACTAACCATCCTGGCCCCGGGTGCCTGTCTGA  
CCTCCGTGCCTAGTCGTGGCTCTCCATCTTGTCTCCTCCCCGTGTCCCCAATGTCTTCAGTGGGGGGCCCCCTCT  
TGGGTCCCCT

3390/6881  
**FIGURE 3125**

CAGGAGGGTGCTCGGAGGCCACAGGAGGGGGCTCCTGGCTGGCCTGAGGCTGGCCGGAGGGGAAGGGGCTAGCAG  
GTGTGTAAACAGAGGGTTCCATCGACCAGGTTGCTTGGGCCCCGGAGCCACGGGTCTGGTGATGCCATAGCAGC  
CACCACCGCGGCGCCTAGGGCTGCGGCAGGGACTCGGCCTCTGGGAGGTTTACCTCGCCCCCACTTGTGCCCCA  
GCTCAGCCCCCTGCACGCAGCCGACTAGCAGTCTAGAGGCCTGAGGCTTCTGGGTCTGGTGACGGGGCTGGC  
ATGACCCCGGGGGTCGTCCATGCCAGTCCGCCTCAGTCGCAGAGGGTCCCTCGGCAAGCGCCCTGTGAGTGGGCC  
ATTCGGAACATTGGACAGAAGCCCAAAGAGCCAAATTGTCACAATTGTGGAACCCACATTGGCCTGAGATCCAAA  
ACGCTTCGAGGCACCCCAAATTACCTGCCATTTCGTGAGGACCCACCCACCCAGTGTTATATTCTGCCTCGCC  
GGAGTGGGTGTTCCCGGGGGCACTTGCCGACCAGCCCTTGCGTCCCCAGGTTTGCAGCTCTCCCTGGGCCACT  
AACCATCCTGGCCCGGGCTGCCTGTCTGACCTCCGTGCCTAGTCGTGGCTCTCCATCTTGTCTCCTCCCCGTGTC  
CCCAATGTCTTCAGTGGGGGGCCCCCTCTTGGGTCCC

3391/6881  
**FIGURE 3126**

MTPGVVHASPPQSQRVPRQAPCEWAI RNIGQKPKEPNCHNCGTHIGLRSKTLRGTPNYLPIRQDTHPPSVIFCLA  
GVGVPGGTCRPAPCVPRFAALPWATNHPGPGCLSDLRA

3392/6881  
**FIGURE 3127**

AGTGCCTTAGATTCCAGCGAGCTACGCAAGCAATCCTGGCCCAGCCGAGCTTGCTTCCCCAAATCCCGTAATCCT  
TGACCTTATTCCCCAAAGAAGCGGCCTCCCGGAAGGAGCGCCCTGGCGGAGAAGACTCGAACGGCTCCCACAG  
CCGGGCGTTGGGGGAAAGGCATGAAGAACTCTTGACTGACAGAAACGGAGGGTGTGTCCAAAGTTTTGAGGACGG  
CCGAGCGGCGCTCCAAAACCCGTCTCACAGCCTCGCCCCGTTCGCCTCAGCTACAACAAATCATCGTCAACCTG  
TTCCACCTTCTCCAGTCTGGTAGCAAAAAGGGGTGTCTCAGGCCACTCTTACCTCCACCATGAGCCTGGACATC  
CAGAGCCTGGACATCCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCTGCTCCAGCAGTGC  
CAAGTGGTCAGGCTGGACGACTGTGGCCTCACGGAAGCACGGTGCAAGGACATCAGCTCTGCATTCCGAGTCAAC  
CCTGCACTGGCAGAGCTCAACCTGCGCAGCAACGAGCTGGGCGATGTCGGCGTGCATTGCGTGTCCAGGGCCTG  
CAGACCCCTCCTGCAAGATCCAGAAGCTGAGCCTCCAGAACTGCTGCCTGACGGGGGCCGGCTGCGGGGTCTTG  
TCCAGCACACTACGCACCTGCCCACCCTGCAGGAGCTGCACCTCAGCGACAACCTCTTGGGGGATGCGGGCCTG  
CAGCTGCTCTGCGAAGGACTCCTGGACCCCAAGTCCCGCTGGAAGGCTGCAGCTGGAGTATTGCAGCCTCTCG  
GCTGCCAGCTGCGAGCCCTGGCCTCCGTGCTCAGGGCCAAGCCGGAATTCAAGGAGCTCACGGTTAGCAACAAC  
GACATCAATGAGGCTGGCGTCCGTGTGCTGTGCCAGGGCCTGAAGGACTCCCCCTGCCAGCTGGAGGCGCTCAAG  
CTGGAGAGCTGCGGTGTGACATCAGACAACGCCGGACCTGTGCGGCATTGTGGCCTCCAAGGCCTCGCTGCGG  
GAGCTGGCCCTGGGCAGCAACAAGCTGGGTGATGTGGGCATGGCGGAGCTGTGCCCAGGGCTGCTCCACCCAGC  
TCCAGGCTCAGGACCCTGTGGATCTGGGAGTGTGGCATCACTGCCAAGGGCTGCGGGGATCTGTGCCGTGTCTC  
AGGGCCAAGGAGAGCCTGAAGGAGCTCAGCCTGCCCCGCAACGAGCTGGGGGATGAGGGTGCCCGACTGCTGTGT  
GAGACCCTGCTGGAACCTGGCTGCCAGCTGGAGTGGCTGTGGGTGAAGTCCTGCAGCTTACAGCCGCTGCTGC  
TCCACTTCAGCTCAGTGTGCCCCAGAACAGTTTTCTCCTGGAGCTACAGATAAGCAACAACAGGCTGGAGGAT  
GCGGGCGTGCGGGAGCTGTGCCAGGGCCTGGGCCAGCCTGGCTCTGTGCTGCGGGTGTCTGGTTGGCCGACTGC  
GATGTGAGTGACAGCAGCTGCAGCAGCCTCGCCGCAACCCTGTTGGCCAACCACAGCCTGCGTGAGCTGGACCTC  
AGCAACAACCTGCCTGGGGGACGCCGGCATCTGCAGCTGGTGGAGAGCGTCCGGCAGCCGGGGCTGCCTCCTGGAG  
CAGCTGGTCTGTACGACATTACTGGTCTGAGGAGATGGAGGACCGGCTGCAGGCCCTGGAGAAGGACAAGCCA  
TCCCTGAGGGTCACTCTCCTGAGGCTCTTCTGCTGCTGCTCTCCCTGGACGACCGGCTCGAGGCAACCCTGGGG  
CCCACCAGCCCCTGCCATGCTCTCACCTGCATATCCTAGGTTTGAAGAGAAACGCTCAGATCCGCTTATTTCTG  
CCAGTATATTTTGGACACTTTATAATCATTAAAGCACTTTCTTGGC

3393/6881  
**FIGURE 3128**

MSLDIQSLDIQCEELSDARWAE LLP LLQQCQVVRLLDDCGLTEARCKDISSALRVNPALAE LNRSNELGDVG VHC  
VLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLR TLPTLQELHLSDNLLGDAGLQLLCEGLLD POCRLEKLQLE  
YCSLSAASCEPLASVLRAPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCGVTS DNCRDL CGIVAS  
KASLRELALGSNKLGDVGMAELCPGLLHPSSRLRTLWIWECGITAKCGDL CRVLRAKESLKELSLAGNELG DEG  
ARLLCETLLEPGCQLES LWKSCSFTAACCSHFSSVLAQNRFLLELQISNNRLEDAGVREL CQGLGQPGSVLRVL  
WLADCDVSDSSCSLAATLLANHSLRELDLSNNCLGDAGILQLVESVRQPGCLLEQLVLYDIWSEEMEDRLQAL  
EKDKPSLRVIS



3394/6881  
**FIGURE 3129**

CACCCACCCACCCCTCCCCGATTGTGGCATCAGTGCTGCTGCTTCCAGGGAGCCTTCCTGGCCATCCAAGCCT  
CCTCTCCAGGTTCTGCCCCTGCTGTAGTCCCCAGGCCAGTGCTTGGCAGGTGCTCAGGGAATGTATCCACCAACC  
AAGGTTTGGGGTGGCTGTCTCTGCCTGACCACTTCCCCAGGCCCTGGCGGGTACCTGAGCTGTGCTCTCAGGG  
CCTCAGGAACCTCCTTCCATATTCAGGGCCTGTGCCTGGGGAGGCTTCAGGGTGTAGCAGCTGTGCCCATCCCAG  
GCTGACCCACCCAGCTTGCCIGGTAGCCAGCCTCTGGGCTAGTGTGCCGTGGGGCAGGGGATGTGCTGTAGCCT  
GGTGAGAGTCCCCAACCCAGAAGGGGGCCATGGAAGCTGACACCCCAAGTGGCCGCCCCCTGCTCTGTCTTG  
CTTCGGACACTGTGGCCGGGTCCAGGATCCTGGCATCCTGGGAGGTCTCTGGCTTTGTGGGCAGCCTGCCTGGCC  
CGCACAGTCTGCCTGTCTGAGGGTGAGACACAGGTCAAGCCCACAGACCCCTTGCTCCCCCTGCTGGGGCCTCC  
AGGCTCACAGACCACCCACCCCTACCCTGTCTTGTCCCAAGCAAATGAGAGGCAGGGGCTTCCCGGGCTGCTGCT  
GTCCCGCCCTCTGTGGGGCAGGAGGAGGTGCCACAGAGGCTGGGTGGTGATAGCCAGGAGATGGGCTGGCATCT  
GCATTACCCAAGCTCTGCTGCCCATGGTGGCCTTTCTGGGGGTGGGTGATGGTCCCTGCCCCCTGCCCCACCCGT  
GATGTCTGCTCCAGAGACAAAGGTGGGGAGGGTGTGAAGAGGAAGTGTTCGCCAGGGAGAGGCTGCGGCTCCT  
CCTGAAACATCAGCCCTGTGGGTCTGTTCAGAAATCTCCGGCTGTGAAACTGTGAGGGGATTGCGCCAAAGAC  
GTCTCTTCCCTCTGCCTCCCACCCAGGCCACTCTTACCTCCACCATGAGCCTGGACATCCAGAGCCTGGACAT  
CCAGTGTGAGGAGCTGAGCGACGCTAGATGGGCCGAGCTCCTCCCTCTGCTCCAGCAGTGCCAAGTGGTCAGGTA  
CGCTTGCTCTCGGGGTGGCCTTGGGGTCTGGTGGGGCAGGCTGGCGGGTGGCGGCTCCCTCTGAAGGGTGCATT  
GCTCTGGAACGCCTTGTTCGTGGACATGAAGTATGAATTCGTGACAGTACCACGTGCATGAGATGTGATTCTTG  
TGTTCTTTTTGACAATTTAGGAATGTAAAACCCATTCCAGGCTCATGCAGCATGGGCTGAGGTGGGCGGGCCGA  
GGTGGGCGGCCACTGGCCAGTGGGTCTCTGGCTCCGGTGTCTCAGCTCCTCTCCCTCCCTTGGAGACACGAGGGC  
AGGACACAGCTTGGGTCCCCTCCGTGAGCCTCCATGGGGCGCTGCTTGTCCCTGCCAAGCTGGGGGCTGGGAGTC  
CTCGGCCCTCGAGGTCTCACAACCCAGCAGCTTACAAAGCAGGACACGAGTGCCTGGGTGGGCCGCATCTTTT  
CTCTTTTACCTGGTGATTTCAAGTAGTGTGAGGTTTGGCGAGGAGTTACGAGGACCGGACGGGGCTCCCTGGTG  
AGGTGGTCTGTGTACCTGCGGACGCTAGCTCTGGCCCAGCACCTCCAGGCAGGGTCTGCTTTTCCGCCCTGCCC  
TTTTCGTCTTCTCCTCAGTGGTCCAGGATTGCGTGGCCCTCAGCCCTCTGTCTCCTTAGCCCTCTCCCGTCTGTGAC  
TGTCCCTCGTCTCTCTGGGTTCTTGGTGGTCTGAGGGTCTGGCCAGGCTCCTGCAGGACGTCCTCTGTGTGGGC  
TTGTCTGGTGGTTTCTTGTGGTTGAAGTCCTACAGTTTTGGCAGGAATGCAGGGAGATGCCGTGGGGCCTGCCAG  
GAGCGTCTGTACAGGCGCCGTCTGCCACCCCTCTCACTGTGACGCCACTGCCTTTCTCCTGTGACTGATCAG  
TGCCTTCGAGAGATACTTTAAATTCTTTTTATTTTATAGAGACAGGGCATTGCTCTGTACCCAGGCTGGAGTGGC  
TCCCTCATGGCTTATGCGGCCTCAACCTCCTGGGCTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTGGGA  
TTATGGGCATGCGCCACCACGCCCCGGCTACTTTTGTATTTTATAGTAAAGACGGGGTTTCTCCATGTGTGTCAGGT  
TGGTCTTGAATCCCGACCTCAGGTGATCTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCA  
CCGCGCCTGGCC

3395/6881  
**FIGURE 3130**

MSLDIQSLHIQCDDLTDARWAELLLLLHNCQVDRLLDDCGLTEARCKDISSALRVNPALAEINLRSNELGDVGVHC  
VLQGLQTPSCKIQKLSLQNCCLTGAGCGVLSSTLRITLPTLQELHLSNLLGDAGLQLCEGLLDPQCRLEKLQLE  
YCSLSAASCEPLASVLRKPDFKELTVSNNDINEAGVRVLCQGLKDSPCQLEALKLESCGVTSDNCRDLGIVAS  
KASLRELALGSNKLACTTFTGLRRWRTGCRPWRTSHP

3395/6881  
**FIGURE 3131A**

AGAGTGAAGCCACCACTCGCTCTCGAATCGCGCGGACGCTGGGCCTGCGCAGGCCTGTTCACAGCAGCTGCATCC  
CGTCAGTGTGAAGCCAGTGGAGCCCTCTTTGGGGCTGCTGAGAGCGGATATTGGAGCTGCCCTCTGTCTCTGT  
TTGGAGATCCTTATGAGCTGGATCCCTTCGACAGCAGTGAAGAGCTTTCTGCAAACCTCTTTCCCTCTGAGTG  
CCAAGAGACGGGCTCTGTCCCGGTGAGCCCTGCAGTCCCACCAGCCCGTGCCAGGCCCGTCTCCGTGGGGCTTT  
CCAGGAGSGCCTCCCTGCCGCGGTGCCAGAGCCAGACTTGGAGGAGGAGCCAGTGCCTGACCTGCTGGGCAGCA  
TCCTGTGCGGCCAGAGCCTCCTGATGCTGGGCAGCAGTGTATCATCATCCACCGCAGCGCTCCCTCAGCGCCA  
AGAGGGCGGGCTCCAGTTTCTTTTTCAGCGAACTCAGGCAGTCTGTCCAGAGGGGAAGAAGGATTCAAGGGCTGCC  
TGCAGCCCCGAGCACTGCCCTCCGGGAGCCCCGGCCCAAGGCCCGTCAAGAAACAGGCCACAGAGCACAGGGCTCA  
GCTGTCAAGGCAGGTCCCGCACCCCGCCCCGACCGCGGGGGCGCCTGTGAGGCTGGACTTGCCAGCAGCCCTG  
GGGCGGTTTCAGGCTCGGAACCTTGTCAAATGGGAGTGTGCCTGGCTTCAGACAGAGCCACAGCCCTGGTTCAAG  
GCACCAACAAGCACACCTTGCCCTTGCTCTGCCGCTCTAAGATCTCAAGCAGAGATTCTAAGCCCCATGTCT  
GCAGTGTGGTGCCGGGGCCTCCCTGAAGCCAGCGCCAGAAGAACAGACATCTCTGAGCTACCCAGGATACCAA  
AGATCAGGAGAGATGACGGTGGTGGCAGACGGGATGCGGCCCCGGGCCACGGGCAGAGCATTGAGATCCCCAGTG  
CCTGCATCAGCCGACTGACTGGCAGGGAGGGCACCGGGCAGCCAGGGCGAGGCACACGGGCAGAGAGCGAGGCCA  
GCAGCAGGGTGCCCCGGGAGCCCGGGTGCACACGGGCAGCTCCCGGCCCCAGCCCCAGCTCCCATGGCAGTT  
TGGCCCCACTGGGACCATCAAGAGGGAAGGGGTGCGGTGACCTTTGAGAGCTTCCGGATCAATATTCTTGAA  
ACATGGCACATTCCAGCCAGCTCTCCAGCCCTGGCTTCTGTAAACAGTTCCGGCCTGTGGACGATAAGGAGCAGA  
GGAAGGAGAACCCCTCACCCCTCTTCTCCATCAAGAAGACGAAGCAGTGCAGGAGCGAGGTCTACGACCCATCCG  
ACCCACCGGCTCCGACTCCAGCGCCCTTGGCAGCAGCCCCGAGAGGTCTGGCCCCGGCTCCTGCCCTCTGAGA  
TCACACGAACCATCTCCATCAACAGCCCAAGGCCAGACGGTGCAGGCTGTGCGCTGCGTCACCTCCTACACGG  
TGGAGAGCATCTTTGGTACAGAGCCCCGAACCCCTCTCGGACCGTCTCCGCCATGTCCAAGCTCCGGGGTGCAG  
TGGCTGCCGAGGGGGCCTCTGACACGGAGCGAGAGGAGCCACAGAGAGCCAGGGCCTGGCTGCCCGGCTGCGGA  
GGCCATCCCCCCCAGAGCCCTGGGATGAGGAGGATGGGGCGTCTTGACAGACCTTCTTTGGCTCTGAGGAGCGGA  
CGGTGACCTGTGTGACTGTCTGTGGAGCCGGAAGCCCCACCCAGCCCGGACGTGCTGCAGGCTGCCACCCACAGAG  
TCGTGGAGCTCAGGCCCCCTTCCCGGTCCCGCTCCACATCCAGCTCCCGCAGCAGGAAGAAGGCCAAGAGGAAGA  
GGGTGTCCAGGGAGCACGGACGGACGCGCTCTGGGACGCGCTCTGAATCCAGGGACAGGAGCTCGAGGTACGCGT  
CACCATCAGTGGGTGAGGAGCGCCCCAGGAGGCAGCGGTCCAAGGCCAAGAGCCGGCGGTCTCCAGTGACCGCT  
CCAGCAGCCGAGAGCGAGCTAAGAGGAAGAAAGCCAAGGACAAGAGCAGGGAGCACAGGCCGGGGCCCTGGGGCC  
ACAGCCGGAGGACGTCCCGGTGCGGTCGGGGAGCCCTGGCAGCTCTTCTATGAGCACTATGAGAGTAGGAAGA  
AGAAGAAAAGGAGATCAGCGTCCAGACCTCGGGGAAGGGAGTGTCCCCCACCAGCAGCCTGGAGAGGCTCTGCA  
GGCACAAGCATCAGCGGGAACGCAGCCACGAGCGGCCAGACAGGAAGGAGAGTGTGGCGTGGCCCCGAGACCGGA  
GGAAGCGGAGGTCCCGGTCCCAAGCTCGGAGCACAGGGCACGGGAGCACAGGCCGCTCGGTCCCGTGAGAGT  
GGCCGAGACCCGTTCCCATTTCCAGAGAGGAAGGGGCTGTGAGGGAGGCTTCCCGAGCGCCCTTGACAGG  
GGGAGCCAGGGCGGGAAGACCTCCCCACCAGGTTGCCAGCCTTGGGGGAAGCACATGTCTCGCCGAGGTGGCTA  
CGGCCGACAAGGCCCCCTGCAGGCTCCCCCTGTCTGGAGGTGGCAGCTGAGTGTGAGCCGGACGACCTGGACC  
TGGATTATGGCGACTCCGTGGAGGCCGGACAGCTTTTGATGATTTCTCAAGCGACGCCGTTTTCATCCAGCTCG  
ATGACATGAGCTCGCCACCTTCTCCCGAAAGCACAGACTCTTCCCGGAGCGAGACTTCCCACTGAAGCCTGCGT  
TGCCCCCAGCCAGCCTGGCCGTGGCCGCCATCCAGAGGGAGGTGTCAATTGATGCACGATGAAGACCCTTCGCAGC  
CCCCACCCCTGCCAGAGGGCACCCAGGAGCCACATTTGCTCAGGCCGACGCGGTGAGAAGGCTGAGGCACCCA  
GTTCCCCGGATGTGGCGCCTGCGGGGAAGGAAGACAGCCCTCTGCGAGTGGGAGGGTACAGGAGGCAGCCCGGC  
CTGAGGAGGTGGTTTCGACAGACCCCTGCTGCGGTCCAGAGCCCTGGTGAAGCGGGTCACTGGAACCTGCAGG  
AGTCGGAGAGCAGCGCCCCGCGGAGGACAGAGCCCCCGGGCACCCTTCACAGGCCACAGAAGCCCCGAGAAG  
GAGCCTGGGACATGGAGGATGTGGCCCCACAGGGTTCAGGCAGGTGTTCTCCGAGCTGCCCTTTCCAGTACG  
TGCTTCCGGAACCCGGGTTCACAGACAGACCCCTCTCAGGTTTACAGCCCCGGCTGCCGCTGCCCGGGCCC  
AGCCCTCAAGCATCCACCCCTGCGCACTGGTCAGCCAGCCACGGTCCAGTTCATCCTTCAGGGGAGCTGCCGC  
TAGTGGGCTGTGGGGCAGCACAGACCTGGCCCCAGTGCCCGCTGCCCTGACCCAGCCTCAGAGCCAGCCAGTC  
AAGCCACTGCAGCCAGCAACTCGGAGGAGAAGACCCCGGCCCCCAGGCTAGCTGCGGAGAAAACCAAGAAGGAGG  
AGTACATGAAGAAGCTGCACATGCAGGAGCGTGTGTGGAGGAGGTGAAGCTGGCCATCAAGCCCTTCTACCAGA

3397/6881  
**FIGURE 3131B**

AGAGGGAGGTGACCAAGGAGGAGTACAAGGACATCCTGCGCAAGGCCGTGCAGAAGATCTGCCACAGCAAGAGTG  
GAGAGATCAACCCCGTGAAGGTGGCCAACCTGGTGAAGGCGTACGTGGACAAGTACAGGCACATGCGCAGGCACA  
AGAAACCAGAGGCCGGGGAGGAGCCGCCACGCAGGGGGCCGAGGGCTGAGGCCAGGCAATCACGGGCTATGCCC  
GGGGAGCTGTCGGGAGTGGCGGGAATCGGGGCCATGCCCGGGAGCTGTCGGGAGTGGCGGGAATCGGGGCCATG  
CCCGGGGAGCTGTCGGGAGTGGCGGGAATGGGGGGCATCACCATGCCTGCCGTGGGGTTCCTGCGCTGACACCT  
GGTCTGTGCACCTGTGTTGCTCACAGTTGAAAAGTGGACACTTTTGTATGTATATTATAGAGACACTGTTTCCAT  
TCTAATTTATCAAAAATGGATTATCTTTAGAAACCTCTTGATTGACTTACTACTTGAAGATAAAGCACTTGGTG  
ATCAAGAGGGGCTCCTGGTGGGTGGCGCGTCCTTGATAAATCTCTAGGTGGCCTCCCGCCAACAGCTGCTGTGT  
ACCTTTGGCTCTGAATTAGGAATATCTTTACTTTCTCTTTTC

3398/6881  
**FIGURE 3132**

MDDDSLDELVARSPGPDGHPQVGPADPAGDFEESSVGS SSGDSGDDSDSEHGDGTDGEDEGASEEEDLEDRSGSED  
SEDDGETLLEVAGTQGKLEAAGSFNSDDDAESCPICLNAFRDQAVGTPENCAHYFCLDCIVEWSKNANSCPVDR  
LFCICICIRAQFGGKILRKIPVENTKASEEEEEPTFCEVQGRSDREDRLLLCDGCDAGYHMECLDPPLQEV  
FCPECAAPGVVLAADAGPVSEEEVSLLLADVPTTSRLRPRAGRTRAIARTRQSERVRATVNRNRISTARRVQHT  
PGRLGSSLLDEAIEAVATGLSTAVYQRPLTPRTPARRKRKTRRRKKVPGRKKTSPGPSAKSKSSATRSKKRQHRV  
KKRRGKKVKSEATTRSRIARTLGLRRPVHSSCIPSVLKPVEPSLGLLRADIGAASLSLFGDPYELDPFDSSEELS  
ANPLSPLSAKRRALSRSALQSHQPVARPVSVGLSRRRLPAAVPEPDLEEEFVPDLLGSILSGQSLMLGSSDVII  
HRDGSLSAKRAAPVSFQRNSGSLSRGEEGFKGCLQPRALPSGSPAQGPSGNRPQSTGLSCQGRSRTPARTAGAPV  
RLDLPAAPGAVQARNLSNGSVPGFRQSHSPWFNGTNKHTLPLASAASKISSRDSKPPCRSVVPGPPLKPAPRRTD  
ISELPRIPIKIRDDGGGRRDAAPAHGQSIEIPSACISRLTGREGTQPGRGTRAESEASSRVPREPGVHTGSSRP  
PAPSSHGSLAPLGP SRGKGVGSTFESFRINIPGNMAHSSQLSSPGFCNTFRPVDDKEQRKENPSPLFSIKKTKQL  
RSEVYDPSDPTGSDSSAPGSSPERSGPGLLPSEITRTISIKQPEGPDGAGCALRHAPTLVESIFGTEPEPPLGPS  
SAMSKLRGAVAAEGASDTEREPTESQGLAARLRSPPEPWDEEDGASCSTFFGSEERTVTCVTVEPEAPPSP  
DVLQAATHRVVELRPPSRSRSTSSSRKKA KRKRVSRHGRTRSGTRSESRDRSSRSASP SVGEERPRRQSKA  
KSRRSSSDRSSRERAKRKKAKDKSREHRRGPWGHSSRTSRSRSGSPGSSSYEHYESRKKKKRRSASRPRGRECS  
PTSSLERLCRHKHQERSHERPDRKESVAVPRDRRKRSSRSPSEHRRAREHRRPRSREKWPQTRSHSPERKGAVR  
EASPAPLAQGEPEGREDLPTRLPALGEAHVSPEVATADKAPLQAPPVLEVAACEPDLDLDYGDSVEAGHVFD  
SSDAVFIQLDDMSPPSPESTDSSPERDFPLKPALPPASLAVAAIQREVSLMHDEDPSPQPPPLPEGTQEPHLLRP  
DAAEKAEAPSSPDVAPAGKEDSPSASGRVQEAARPEEVVSQTPLLRSRALVKRVTNLQESSESSAPAEDRAPRAP  
LHRPQKPREGAWDMEDVAPTGVRAQAFSELFPFPHVLEPGFPDTPSQVYSPGLPPAPAQPSIIPPCALVSQPTV  
QFILQGSPLVGCAGAAQTLAPVPAALTPASEPASQATAASNSEEKTPAPRLAAEKTKEEYMKKLHMQERAVEEV  
KLAIKPFYQKREVTKEEYKDILRKAVQKICHSKSGEINPVKVANLVKAYVNKYRHMRRHKKEAGEEPPTQGAEG

[illegible]

3400/6881

**FIGURE 3134**

MQPSSLLPLALCLLAAPASALVRIPLHKFTSIRRTMSEVGGSVEDLIAKGPVSKYSQAVPAVTEGPIPEVLKNYM  
DAQYYGEIGIGTPPQCFTVVFDTGSSNLWVPSIHCKLLDIACWIHHKYNSDKSSTYVKNGTSFDIHYGSGSLSGY  
LSQDTVSVPCQSASSASALGGVKVERQVFGEATKQPGITFIAAKFDGILGMAYPRISVNNVLPVFDNLMQQKLVD  
QNIFSFYLSRDPDAQPGGELMLGGTDSKYYKGSLSYLNVTRKAYWQVHLDQVEVASGLTLCKEGCEAIVDTGTSL  
MVGPDDEVRELQKAIGAVPLIQGEYMIPCEKVSTLPAILTLKGGKGYKLSPEDYTLKVSQAGKTLCLSGFMGMDI  
PPPSGPLWILGDVFIGRYYTVFDRDNNRVGFAEAARL

3401/6881  
**FIGURE 3135**

GCGCGCAACGGCGGGCGACGGCGGGGACCCACCGCACATCCTGCCAGGCCTCCGGCGCCCAGGGCGCACGGCGCG  
CCCCCGTGCCGGCGGGCCCCCTGCGCCCATTTCCTTGGCGCCCCCGCCGGTCGGCCCCGCCAGGCCCCCTTTGCCGGCC  
ACCAGCCAGGCCCCGCGCCGGCCCCGCCCGCCGCCAGGACCGGCCCGCGCCCCGCGAGGCCGCCCGCCGCCCGCGC  
CGCCATGGGAGTGGAGGGCTGCACCAAGTGCATCAAGTACCTGCTCTTCGTCTTCAATTTTCGTCTTCTGGCTGGC  
TGGAGGCGTGATCCTGGGTGTGGCCCTGTGGCTCCGCCATGACCCGCAGACCACCAACCTCCTGTATCTGGAGCT  
GGGAGACAAGCCCGCGCCCAACACCTTCTATGTAGGCATCTACATCCTCATCGCTGTGGGCGCTGTATGATGTT  
CGTTGGCTTCTTGGGCTGTACGGGGCCATCCAGGAATCCCAGTGCCTGCTGGGGACGTTCTTACCTGCCTGGT  
CATCCTGTTTTGCCTGTGAGGTGGCCGCCGGCATCTGGGGCTTTGTCAACAAGGACCAGATCGCCAAGGATGTGAA  
GCAGTTCTATGACCAGGCCCTACAGCAGGCCGTGGTGGATGATGACGCCAACAACGCCAAGGCTGTGGTGAAGAC  
CTTCCACGAGACGCTTGACTGCTGTGGCTCCAGCACACTGACTGCTTTGACCACCTCAGTGCTCAAGAACAATTT  
GTGTCCCTCGGGCAGCAACATCATCAGCAACCTCTTCAAGGAGGACTGCCACCAGAAGATCGATGACCTCTTCTC  
CGGGAAGCTGTACCTCATCGGCATTGCTGCCATCGTGGTCGCTGTGATCATGATCTTCGAGATGATCCTGAGCAT  
GGTCTGTGCTGTGGCATCCGGAACAGCTCCGTGTACTGAGGCCCCCGCAGCTCTGGCCACAGGGACCTCTGCAGT  
GCCCCCTAAGTGACCCGGACACTTCCGAGGGGGCCATCACCGCCTGTGTATATAACGTTTCCGGTATTACTCTGC  
TACACGTAGCCTTTTTACTTTTTGGGGTTTTGTTTTTGTCTGAACCTTTCCTGTTACCTTTTCAGGGCTGACGTC  
CATGTAGGTGGCGTGTAIGAGTGGAGACGGGCCTGGGTCTTGGGGACTGGAGGGCAGGGGTCTTCTGCCCTGGG  
GTCCCAGGGTGCTCTGCCTGCTCAGCCAGGCCTCTCCTGGGAGCCACTCGCCAGAGACTCAGCTTGGCCAACCT  
GGGGGGCTGTGTCCACCCAGCCCGCCCGTCTGTGGGCTGCACAGCTCACCTTGTTCCTTCTGCCCCGGTTCGA  
GAGCCGAGTCTGTGGGCACTCTCTGCCTTCATGCACCTGTCTTTCTAACACGTCGCCTTCAACTGTAATCACAA  
CATCCTGACTCCGTCAATTAATAAGAAGGAACATCAGGCATGCT



3402/6881  
**FIGURE 3136**

CTTGCTCGCGGAGAGAGGAGCTAGGAGCCTCGGCCAATGGGAGCCGGCGTTGTTGGAGGCCACGGCGGCGCAGCC  
CCAAAGCGAGCGAAGCTAGGGTCGCCGCCACTGCCGCAGGAGGCGTGAGGGGATAAAAAACATTGAGATGGCAGAT  
CACAGTTTTTCAGATGGGGTTCCTTCAGATTCCGTGGAAGCTGCTAAAAATGCAAGTAACACAGAAAAGCTCACA  
GATCAGGTGATGCAGAATCCTCGAGTTCTGGCAGCTTTACAGGAGCGACTTGACAATGTCCCTCACACCCCTTCC  
AGCTACATCGAAACTTTTACCTAAAGCAGTAAAAAGAAGATTAAATGCATTGAAACAACCTTCAGGTGAGATGTGCT  
CACATAGAAGCCAAGTTCTATGAAGAGGTACATGACTTGGAAAGAAAGTATGCAGCGCTATACAGCCTCTCTTT  
GACAAGAGAAGAGAATTTATCACCGGCGATGTTGAACCAACAGATGCGGAATCGGAATGGCACAGTGAAAATGAA  
GAGGAAGAGAAAATTGGCTGGAGACATGAAAAGTAAAGTAGTCGTACAGAAAAGCAGCGGCAACGGCTGAAGAG  
CCAGATCCCAAAGGAATTCAGAGTTCTGGTTTACCATCTTCAGAAATGTGGACATGCTGAGTGAATTAGTCCAG  
GAATATGATGAACCAATCTTGAAACACCTGCAGGATATTAAAGTGAAATTTTCTGACCCTGGACAGCCTATGTCT  
TTTGTGTTAGAGTTCCACTTTGAACCCAACGACTACTTTACCAACTCAGTCCTGACAAAAACCTACAAGATGAAA  
TCAGAACCAGATAAGGCTGATCCCTTTTCCCTTTGAAGGTCCTGAGATTGTGGACTGTGACGGGTGTACTATTGAC  
TGGAAGAAAGGAAAGAATGTTACTGTCAAAACCATCAAGAAAAAGCAGAAGCATAAGGGTCGAGGCACTGTTAGA  
ACAATTACGAAACAAGTACCCAATGAGTCCTTTTCAACTTCTTCAATCCATTGAAAGCATCCGGGGATGGAGAA  
TCACTGGATGAAGATTCTGAATTCACATTAGCCTCTGATTTTGAAATTGGACACTTTTCCGTGAGCGGATAGTC  
CCGCGGGCTGTGCTGTACTTCACTGGGGAGGCCATAGAAGATGATGACAATTTTGAAGAAGGTGAAGAAGGAGAA  
GAGGAGGAATTAGAAGGTGACGAGGAGGGAGAAGACGAGGATGATGCGGAAATTAACCCCAAGGTGTAATTTTGT  
TCTGTTAATCATTCATACGTTTCTAGAAGGAACCCAGCCAGCCGGCGGAATGCAAGCAGCAGTAGGAAGCGGAGG  
CGGGTGCTTGGCAGACCGGCTGTGCGGACTCCAGGCCTGTGGGCGGGGCTCGGTCTTGGCCGAGCACAATCCC  
GTGGACAGAGCTTACTCCATCTAACTCGTTTTCAAGTGCATGATTTTCACTTTCACTTTTCTTTTCTTTATTA  
TTTTGCTTAACTTGTACAGTGGCAACTGAAATGCATTTGAGAAATAGGAGGTTTCGTCCAGCACCCCTCTGCAGCC  
TTGGTGCTGTAGCTCTGGAATTCCTTGGGCTTTCCCTGTGGGAGGGCCCTGTAGACCACATCAGGGTGGGGTG  
GGGGTCACTTGGCAAAAAGGGCCGAGGTCTGGTGATGTGGTTCCAGGATCTGGAACCTCTCCACCCCTCTCTGC  
AGTTGGAATGAAATCTTCCCTTTCATCCGAAGAAACCCACTTGTGTTTCCAGCCGCTGAATCTGTGAGTGTGC  
AGCCTGCATCACCTGCTGTATGCCGATCATCTCAGAAAGGGCTGTGTAGAGTAGGGCCCTGTTCTCCTTAGGATG  
TTGCTTCTTCATTTTTTTTTTTTTTTTAGGGGTGGGTGAGGGTTGTGACACACCAGCCAGGTGAGAGCTGCTGCG  
GGTACCTCATATTTATTTATCCCTTCTTGCCTGTGAGGACTGCGGCTTTTCGCTGTGGCTCGTCCTTAACGTTT  
CTGAACCACCTTGGTGCCCTGAGCAGGAAGATGTGCCACTTCTAGCAGGCGCAAGGCCTGTGCGGAAGAAACGC  
CGCTCCCTGCCACCAGGGCTGAAGATGCGAGCCCGTCTCATGACGACGCGCCACCCTGCTGCCGAGCCGGGC  
TTCGGCAGTCTTCTCCACTGAGGACTGGGCTGGGAAGTCTGCGTTTCAGTGGAGCGTATGAGCGTCAAGTCCT  
GCTTTCTCAGTAGCCCCATTGCGGGGCCCCACCATTATCTGTCTGAAGTCTTGGGTTTGGTGTGACCGCTTG  
GCGGCTGGTGGTGGGTTTTCAAGTGGGTGACGGCGCTCTCCGGCAGCCGGGATGGCCGTGTCCGCACTGACC  
AGGCCTGTGGAGAGTGCTCGGCCTAACCTTAGAACACATTTGTAAGTGAATACAGTGTTCATTTGTACAGAA  
TAGTTAGAATATCTATTAAAGTGGTGAAACATTG

3403/6881  
**FIGURE 3137**

CCGGGGCGCGGTTGCATCAGATTCTAGGAAGTGTCTGTAGCCGCAGCTGCGGGTCCGGGATTCCCAGCCATGGC  
AGATTCCCTCCGGGCAGCAGGGCAAAGGCCGGCGTGTGCAGCCCCAGTGGTCCCTCCTGCTGGGACCCAGCCATG  
CAGACTCCACCTTTACAACAGCCTCACCAGGAACAAGGAAGTGTTCATACCTCAAGATGGGAAAAAGGTGACGTG  
GTATTGCTGTGGGCCAACCGTCTATGACGCATCTCACATGGGGCAGCCAGGTCTACATCTCTTTTGATATCTT  
GAGAAGAGTGTGAAGGATTACTTCAAATTTGATGTCTTTTATTGCATGAACATTACGGATATTGATGACAAGAT  
CATCAAGAGGGCCCGGCAGAACACCTGTTTCGAGCAGTATCGGGAGAAGAGGCCTGAAGCGGCACAGCTCTTGGA  
GGATGTTTCAGGCCGCCCTGAAGCCATTTTCAGTAAATTAATGAGACCACGGATCCCGATAAAAAAGCAGATGCT  
CGAACGGATTACGACGCAGTGCAGCTTGCCACAGAGCCACTTGAGAAAGCTGTGCAGTCCAGACTCACGGGAGA  
GGAAGTCAACAGCTGTGTGGAGGTGTTGCTGGAAGAAGCCAAGGATTTGCTCTCTGACTGGCTGGATTCTACACT  
TGGCTGTGATGTCACTGACAATTCCATCTTCTCCAAGCTGCCAAGTTCTGGGAGGGGGACTTCCACAGAGACAT  
GGAAGCTCTGAATGTTCTCCCTCCAATGTCTTAACCCGGGTAGTGAGTATGTGCCAGAAATTGTGAACTTTGT  
CCAGAAGATTGTGGACAACGGTTACGGCTATGTCTCCAATGGGTCTGTCTACTTTGATACAGCGAAGTTTGCTTC  
TAGCGAGAAGCACTCCTATGGGAAGCTGGTGCCTGAGGCCGTTGGAGATCAGAAAGCCCTTCAAGAAGGGGAAGG  
TGACCTGAGCATCTCTGCAGACCGCTGAGTGAGAAGCGCTCTCCCAACGACTTTGCCTTATGGAAGGCCCTCTAA  
GCCCCGAGAACCGTCTGGCCGTGCCCTTGGGGAAAGGGTCGTCCGGGCTGGCATAATCGAGTGTCTCGGCCATGGC  
AGGCACCTCCTAGGGGCTTCGATGGACATTACCGGAGGTGGGTTTCGACCTCCGGTTCCCCCACCATGACAATGA  
GCTGGCACAGTCGGAGGCCCTACTTTGAAAACGACTGTCTGGGTCAAGTACTTCTGCACACAGGCCACCTGACCAT  
TGCAGGCTGCAAAATGTCAAAGTCACTAAAAAAGTTCATCACCATTAAAGATGCCTTGAAAAAGCACTCAGCAGC  
GCAGTTGCGGCTGGCCTTCCCTCATGCACTCGTGAAGGACACCTGGACTACTCCAGCAACACCATGGAGTCAGC  
GCTTCAATATGAGAAGTTCTTGAATGAGTTTTTCTTAAATGTGAAAGATATCCTTCGCGCTCCTGTTGACATCAC  
TGGTCAGTTTGAGAAGTGGGGAGAAGAAGAAGCAGAACTGAATAAGAACTTTTATGACAAGAAGACAGCAATTCA  
CAAAGCCCTCTGTGACAATGTTGACACCCGCACCGTCAATGGAAGAGATGCGGGCCTTGGTCAGTCAGTGCAACCT  
CTATATGGCAGCCCGAAAGCCGTGAGGAAGAGGCCCAACCAGGCTCTGCTGGAGAACATCGCCCTGTACCTCAC  
CCATATGCTGAAGATCTTTGGGGCCGTAGAAGAGGACAGCTCCCTGGGATTCCCGGTCCGAGGGCCTGGAACCAG  
CCTCAGTCTCGAGGCCACAGTCATGCCCTACCTTCAGGTGTTATCAGAATTCCGAGAAGGAGTGCGGAAGATTGC  
CCGAGAGCAAAAAGTCCCTGAGATTCTGCAGCTCAGCGATGCCCTGCGGGACAACATCCTGCCTGAGCTTGGGGT  
GCGGTTTGAAGACCACGAAGGACTGCCCACAGTGGTGAACTGGTAGACAGAAACACCTTATTAAGAAGAGAGAGA  
AGAAAAGAGACGGGTTGAAGAGGAGAAGAGGAAGAAGAAAGAGGAGGCGGCCCGGAGGAAACAGGAACAAGAAGC  
AGCAAAGCTGGCCAAGATGAAGATTCCCCCAGTGAGATGTTCTTGTGCAAAACCGACAAATACTCCAAGTTTGA  
TGAAAATGGTCTGCCCACACATGACATGGAGGGCAAAGAGCTCAGCAAAGGGCAAGCCAAGAAGCTGAAGAAGCT  
CTTCGAGGCTCAGGAGAAGCTCTACAAGGAATATCTGCAGATGGCCCAAGATGGAAGCTTCCAGTGGGGGGCAC  
AGGACTGACTTTTTAAACCATTGTGGACTAGTGGCTGCTGTCTGCCTCAGTGACAATGTCCAGCGCTCCTATCA  
TGTTTACAGTCACCTTGGGTCCTAAATTAAGAGTTGTGTTTATGTAGGTTTCGTGTCGTGCTGGCTCTGAGACA  
TTGATAATAAATTTTTCTCAACAGTGAAAAAAAAAAAAAAAAAAAAA

3404/6881  
**FIGURE 3138**

MADSSGQQGKGRRVQPQWSPPAGTQPCRLHLYNSLTRNKEVFIQDGGKVTWYCCGPTVYDASHMGHARSYISFD  
ILRRVLKDYFKFDVFCMNITDIDDKIIKRARQNHLEQYREKRPEAAQLLEDVQAALKPFSVKLNETTDPDKKQ  
MLERIQHAVQLATEPLEKAVQSRLTGEEVNSCVEVLLEEAKDLLSDWLDSTLGCDVTDNSIFSKLPKFWEGDFHR  
DMEALNVLPPDVLTRVSEYVPEIVNFVQKIVDNGYGYVSNQSVYFD TAKFASSEKHSYGKLVPEAVGDQKALQEG  
EGDLSISADRLSEKRSPNDFALWKASKPGEP SWPCPWGKGRPGWHIECSAMAGTLLGASMDIHGGGFDLRFPHHD  
NELAQSEAYFENDCWVRYFLHTGHLTIAGCKMSKSLKNF ITIKDALKKHSARQLRLAFLMHSWKDTLDYSSNTME  
SALQYEKFLNEFFLNVDILRAPVDITGQFEKWGEEAEELNKNFYDKKTAIHKALCDNVDTRTVMEEMRALVSQC  
NLYMAARKAVRKRPNQALLENIALYLTHMLKIFGAVEEDSSLGFPVGGPGTSLSL EATVMPYLQVLSEFREGVRK  
IAREQKVPEILQLSDALRDNI LPELGVR FEDHEGLPTVVKLVDRNTLLKEREKRRVEEEKRKKKEEAARRKQEQ  
EAAKLAKMKIPPSEMFLSETDKYSKFDENGLPTHMEGKELSKGQAKKLKLF EAQEKLYKEYLQMAQNGSFQ

3405/6881  
**FIGURE 3139**

ATGTCCATCAGGGTAACCCAGAAGTCCTACGAGGTGTCCACCTCTAGCCCCCAGGACTTCAGCAGCCGCTCCTA  
CACGAGTGGACCTGGTGCCTGCATCAGCTCCTCAAGCTTTTCCCCAGTGGTACCAGCAGCTTCCGGGGTAGCCTG  
GGTGGAGGTTATGACAAGGTACGGTTCCTGGAGCAGCATAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAG  
CAGCAGAAGACAGCTCGGAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAACTGGAC  
ACTCTGGGCCAGGAGAAGCTGAAGCTTGGCAACATGCAAGGGCTGATGGAGAAGTGAAGAACAAGTATGAGGAT  
GAGATCAATAAGTGTGCAGAGCTGGAGAATGAATTTGCCTCATCAAGAAGGATGTGGATGAAGCTAACATGAAC  
AAGGTAGAGCTGGAGTCTCTCCTGGAAGGGCTGACTGACGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAG  
ATCCCAGAGCTGCAGTCCCAGATTTCGGACACATCTGTGGTGCTGTCCATGGACAGCAGCCGCTCCCTGGACATG  
GACAACACTATCGCTGAGGTCAAGGCGCAGTACAAGGTGATCTCCAACCGCAGCCGGGCGGAGGCTGAGAGCATG  
CACCAGATCAACTCCTTCAGCCACACCAGCTCCACCAGGGCCGTGGTTGTGAAGAATATCGAGACCCACGAAGGG  
AAGCTGGTGTCCGAGTCCTCTGACGTCCTGCCCAAGTGA

3406/6881  
**FIGURE 3140**

MSIRVTQKSYEVSTSSPPGLQQPLLHEWTWCLHQLLKLFPSTSSFRGSLGGGYDKVRFLEQHNKMLETKWSLLQ  
QQKTARSNMDNMFESYINNLRQLDTLGQEKLLGNMQGLMENCKNKYEDEINKCAELENEFVLIKDVDDEANMN  
KVELESILLEGLTDEINFLRQLYEEEIPELQSQISDTSVVLSDSSRSMDMDNTIAEVKAQYKLHGYQELMKVKLA  
LDIEIATYRKLLDGEESRLDSFSHTSSTRVVVKNIETHEGKLVSSESDVLPK

3407/6881  
**FIGURE 3141**

GGGAAGGGGATTGATTGTTGCGCCTCTGCTCTGAAGAAAGTGTGTCTGGCTCCAACCTCCAGTTCTTTCCCT  
GAGCAGCGCCTGGAACCTAACCTTCCCCTCTGTACCTTCTCGATCCCGCCGGCGCTTTAGAGCCGAGTCCA  
GTCTTGATCCTTCAGAGCCTTAGCCACTAGCTGCGATGCATGTGATCAAGCGAGATGGCCGCCAAGAACGAGTC  
ATGTTTGACAAAATTACATCTCGAATCCAGAAGCTTGTATGGACTCAATATGGATTTGTTGATCTGCTCAG  
ATCACCATGAAAGTAATCCAAGGCTTGTACAGTGGGGTACCACAGTGGAACTAGATACTTTGGCTGCTGAAACA  
GCTGCAACCTTGACTACTAAGCACCTGACTATGCTATCCTGGCAGCCAGGATCGCTGTCTCTAAGTGCACAAA  
GAAACAAAGAAAGTGTTCAAGTGTGATGGAAGACCTCTATAACTACATAAATCCACATAATGGCAAACACTCT  
CCCATGGTGGCCAAGTCAACATTGGATATTGTTCTGGCCAATAAAGATCGCCTGAATTCTGCTATTATCTATGAC  
CGAGATTTCTCTTACAATTACTTCGGCTTTAAGACGCTAGAGCGGTCTTATTTGTTGAAGATCAATGGAAGAGTG  
GCTGAAAGACCACAACATATGTTGATGAGAGTATCTGTTGGGATCCACAAAGAAGACATTGATGCAGCAATTGAA  
ACATATAATCTTCTTCTGAGAGGTGGTTTACTCATGCTTCGCCACTCTCTTCAATGCTGGTACCAACCGCCCA  
CACTTTCTAGCTGTTTTCTTCTGAGTATGAAAGATGACAGCATTGAAGGCATTTATGACACTCTAAAGCAATGT  
GCATTGATTTCTAAGTCTGCTGGAGGAATTGGTGTGCTGTGAGTTGATTTCGGGCTACTGGCAGCTACATTGCT  
GGGACTAATGGCAATTCCAATGGCCTGTACCGATGCTGAGAGTATATAACAACACAGCTCGATATGTGGATCAA  
GGTGGGAACAAGCGTCTGGGGCATTGCTATTTACCTGGAGCCTTGGCATTAGACATCTTGAATTCCCTTGAT  
TTAAGAAGAACACAGGAAGGAAGAGCAGCGTGCCAGAGATCTTTTCTTGCTCTTGGATTCCGGATCTCTTC  
ATGAAACGAGTGGAGACTAATCAGGACTGGTCTTTGATGTGTCCAATGAGTGTCTGGTCTGGATGAGGTTGG  
GGAGAGGAATTTGAGAACTATATGCAAGTTATGAGAAACAAGGTCGTGTCCGCAAAGTTGAAAAGCTCAGCAG  
CTTTGGTATGCCATCATTGAGTCTCAGACGGAACAGGCACCCGTATATGCTCTACAAAGATTCTGTAAATCGA  
AAGAGCAACCAGCAGAACCTGGGAACCATCAAATGCAGCAACCTGTGCACAGAAATAGTGGAGTACACCAGCAAA  
GATGAGGTTGCTGTTTGAATTTGGCTTCCCTGGCCCTGAATATGTATGTCACATCAGAACACACATACGACTTT  
AAGAAGTTGGCTGAAGTCACTAAAGTCTGTGTCGAAACTTGAATAAAATTATTGATATAAACTACTATCTCTGA  
CCAGAGGCATGCCTATCAAATAAACGCCATCGCCCCATTGGAATTGGGGTACAAGGTCTGGCAGATGCTTTTATC  
CTGATGAGATACCTTTTGAGAGTGCAGAAGCCCAGTTACTGAATAAGCAGATCTTTGAACTATTTATTATGGT  
GCTCTGGAAGCCAGCTGTGACCTTGCCAAGGAGCAGGGCCATACGAAACCTATGAGGGCTCTCCAGTTAGCAAA  
GGAATTTCTCAGTATGATATGTGGAATGTTACTCCTACAGACCTATGGGACTGGAAGGTTCTCAAGGAGAAGATT  
GCAAAGTATGGTATAAGAAACAGTTTACTTATTGCCCGATGCCTACAGCTTCCACTGCTCAGATCCTGGGGAAT  
AATGAGTCCATTGAACCTTACACCAGCAACATCTATACTCGCAGAGTCTTGTGAGGAGAATTCAGATTGTAAT  
CCTCACTTATTGAAAGATCTTACCGAGCGGGGCTATGGCATGAAGAGATGAAAAACCAGATTATTGCATGCAAT  
GGCTCTATTAGAGCATACAGAAATTCCTGATGACCTGAAGCAACTTTATAAACTGTGTGGGAAATCTCTCAG  
AAAAGTGTCTCAAGATGGCAGCTGAGAGAGGTGCTTTTATTGATCAAAGCCAATCTTTGAACATCCACATTGCT  
GAGCCTAACTATGGCAAACCTCACTAGTATGCATTTCTACGGCTGGAAGCAGGGTTTGAAGACTGGGATGTATTAT  
TTAAGGACAAGACCAGCGCTAATCCAATCCAGTTCACTCTAAATAAGGAGAAGCTAAAAGATAAAGAAAAGGTA  
TCAAAGAGGAAGAAGAGAAGGAGAGGAACACAGCAGCCATGGTGTGCTCTTTGGAGAATAGAGATGAATGTCTG  
ATGTGTGGATCCTGAGGAAAGACTTGGAAAGAGACCAGCATGTCTTCAGTAGCCAACTACTTCTTGAGCATAGAT  
AGGTATAGTGGGTTTGCTTGAGGTGGTAAGGCTTTGCTGGACCCTGTTGCAGGCAAAAGGAGTAATTGATTTAAA  
GTACTGTTAATGATGATAATGATTTTTTTTTTAACTCATATATTGGGATTTTACCAAAAATAATGCTTTTGAAA  
AAAAGAAAAAAAACGGATATATTGAGAATCAAAGTAGAAGTTTGGGAATGCAAAATAAGTCATCTTGATAC  
AGGGAGTGGTTAAGTAAGGTTTCATCACCCCTTTAGCACTGCTTTTCTGAAGACTTCAGTTTTGTTAAGGAGATT  
TAGTTTTACTGCTTTGACTGGTGGGTCTCTAGAAGCAAACTGAGTGATAACTCATGAGAAGTACTGATAGGACC  
TTTATCTGGATATGGTCTATAGGTTATTCTGAAATAAAGATAAACATTTCTAAGTG

3408/6881

**FIGURE 3142**

ACACTCGCTTCTGGAACGTCTGAGATTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTACAGAGGAGG  
ACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCC  
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA  
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA  
AGGGCACCTTTGCCCAGCTGAGTGAAGTGCAGTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGG  
GAAATGTGCTGGTGACCGTTTTGGCAATCCATTTCCGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA  
AGATGGTGACTGCAGTGGCCAGTGCCCTGTCCTCCAGATACCACTGAGCCCTCTTGCCCATGATTAGAGCTTTCA  
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTGAGAGATCAC

3409/6881  
**FIGURE 3143**

MGHFTTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKANGKKVLTSLGDA  
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMTAVASALSSRYH



3410/6881  
**FIGURE 3144**

ACACTCGCTTCTGGAACGCTGAGGTTATCAATAAGCTCCTAGTCCAGACGCCATGGGTCATTTCACAGAGGAGG  
ACAAGGCTACTATCACAAGCCTGTGGGGCAAGGTGAATGTGGAAGATGCTGGAGGAGAAACCCTGGGAAGGCTCC  
TGGTTGTCTACCCATGGACCCAGAGGTTCTTTGACAGCTTTGGCAACCTGTCCTCTGCCTCTGCCATCATGGGCA  
ACCCCAAAGTCAAGGCACATGGCAAGAAGGTGCTGACTTCCTTGGGAGATGCCATAAAGCACCTGGATGATCTCA  
AGGGCACCTTTGCCCAGCTGAGTGAAGTGCAGTGTGACAAGCTGCATGTGGATCCTGAGAAGTCAAGCTCCTGG  
GAAATGTGCTGGTGACCGTTTGGCAATCCATTTGGCAAAGAATTCACCCCTGAGGTGCAGGCTTCCTGGCAGA  
AGATGGTGACTGGAGTGGCCAGTGCCCTGTCCTCCAGATACCACTGAGCTCACTGCCCATGATGCAGAGCTTTCA  
AGGATAGGCTTTATTCTGCAAGCAATACAAATAATAAATCTATTCTGCTAAGAGATCAC

3411/6881  
**FIGURE 3145**

MGHFTEEDKATITSLWGKVNVEDAGGETLGRLLVVYPWTQRFFDSFGNLSSASAIMGNPKVKAHGKKVLTSLGDA  
IKHLDDLKGTFAQLSELHCDKLHVDPENFKLLGNVLVTVLAIHFGKEFTPEVQASWQKMVTGVASALSSRYH

3412/6881  
**FIGURE 3146**

CAACAAAAAGAGCCTCAGGATCCAGCACACATTATCACAACTTAGTGTCATCCATCAGTCTGACCCCTCTCC  
GGACCTGACTCCACCCCTGAGGACACAGGTCAGCCTTGACCAATGACTTTTAAGTACCATGGAGAACAGGGGGCC  
AGAACTTCGGCAGTAAAGAATAAAAGGCCAGACAGAGAGGCAGCAGCACATATCTGCTTCCGACACAGCTGCAAT  
CACTAGCAAGCTCTCAGGCCTGGCATCATGGTGCATTTTACTGCTGAGGAGAAGGCTGCCGTCCTAGCCTGTGG  
AGCAAGATGAATGTGGAAGAGGCTGGAGGTGAAGCCTTGGGCAGACTCCTCGTTGTTTACCCCTGGACCCAGAGA  
TTTTTTGACAGCTTTGGAAACCTGTCGTCTCCCTCTGCCATCCTGGGCAACCCCAAGGTCAAGGCCCATGGCAAG  
AAGGTGCTGACTTCCTTTGGAGATGCTATTAATAACATGGACAACCTCAAGCCCGCCTTTGCTAAGCTGAGTGAG  
CTGCACTGTGACAAGCTGCATGTGGATCCTGAGAACTTCAAGCTCCTGGGTAACTGATGGTGATTATTCTGGCT  
ACTCACTTTGGCAAGGAGTTTACCCCTGAAGTGCAGGCTGCCTGGCAGAAGCTGGTGTCTGCTGTCTGCCATTGCC  
CTGGCCCATAGTACCACTGAGTTCTCTCCAGTTGCAGGTCTTCTGTGACCCTGACACCCTCCTTCTGCACA  
TGGGGACTGGGCTTGGCCTTGAGAGAAAGCCTTCTGTTTAATAAAGTACATTTTCTTCAGTAATC

3413/6881  
**FIGURE 3147**

MVHFTAEEKAAVTSLWSKMNVEEAGGEALGRLLVVYPWTQRFFDSFGNLSSPSAILGNPKVKAHGKKVLTSGDA  
IKNMDNLKPAFAKLSELHCDKLHVDPENFKLLGNVMVILATHEGKEFTPEVQAAWQKLVSAVAIALAHKYH

3414/6881  
**FIGURE 3148**

CTCTTCTCCCCTGATTCAAGACTCCTCTGCTTTGGACTGAAGCACTGCAGGAGTTTGTGACCAAGAACTTCAAGA  
GTCAAGACAGAAGGAAGCCAAGGGAGCAGTGCAATGGATTTCTCAGTAAAGGTAGACATAGAGAAGGAGGTGACC  
TGCCCCATCTGCCTGGAGCTCCTGACAGAACCCTGAGCCTAGATTGTGGCCACAGCTTCTGCCAAGCCTGCATC  
ACTGCAAAGATCAAGGAGTCAGTGATCATCTCAAGAGGGGAAAGCAGCTGTCTGTGTGTCAGACCAGATTCCAG  
CCTGGGAACCTCCGACCTAATCGGCATCTGGCCAACATAGTTGAGAGAGTCAAAGAGGTCAAGATGAGCCACAG  
GAGGGGCAGAAGAGAGATGTCTGTGAGCACCACGGAAGAACTCCAGATCTTCTGTAAGGAGGATGGAAAAGTC  
ATTTGCTGGGTTTGTGAACTGTCTCAGGAACACCAAGGTCACCAAACATTCCGCATAAACGAGGTGGTCAAGGAA  
TGTCAGGAAAAGCTGCAGGTAGCCCTGCAGAGGCTGATAAAGGAGAATCAAGAGGCTGAGAAGCTGGAAGATGAC  
ATCAGACAAGAGAGAACCGCCTGGAAGATCGAGAGACAGAAGATTCTGAAAGGGTTCAATGAAATGAGAGTCATC  
TTGGACAATGAGGAGCAGAGAGAGCTGCAAAAGCTGGAGGAAGGTGAGGTGAATGTGCTGGATAACCTGGCAGCA  
GCTACAGACCAGCTGGTCCAGCAGAGGCAGGATGCCAGCAGCTCATCTCAGATCTCCAGCGGAGGTTGACGGGA  
TCGTCAGTAGAGATGCTGCAGGATGTGATTGACGTGATGAAAAGGAGTGAAAGCTGGACATTGAAGAAGCCAAAA  
TCTGTTTCCAAGAACTAAAGAGTGTATTCCGAGTACCAGATCTGAGTGGGATGCTGCAAGTTCTTAAAGAGCTG  
ACAGATGTCCAGTACTACTGGGTGGACGTGATGCTGAATCCAGGCAGTGCCACTTCGAATGTTGCTATTTCTGTG  
GATCAGAGACAAGTGAAAACCTGTACGCACCTGCACATTTAAGAATTCAAATCCATGTGATTTTTCTGCTTTTGGT  
GTCTTCGGCTGCCAATATTTCTCTTCGGGGAAATATTACTGGGAAGTAGATGTGCTGGAAGATTGCCCTGGATC  
CTGGGCGTACACAGTAAATAAGTAGTCTGAATAAAGGAAGAGCTCTGGGTTTGCTTTTGATCCAAGTGTAAT  
TATTCAAAAGTTTACTCCAGATATAGACCTCAATATGGCTACTGGGTTATAGGATTACAGAATACATGTGAATAT  
AATGCTTTTGGAGACTCCTCCTCTTCTGATCCCAAGGTTTGGACTCTCTTATGGCTGTGCTCCCTGTCGTATTG  
GGGTTTTCTAGACTATGAGGCAGGCATTGTCTCATTTTTCAATGTCAAAACCACGGAGCACTCATCTACAAGT  
TCTCTGGATGTGCTTTTCTCGACCTGCTTATCCGTATTTCAATCCTTGGAACTGCCTAGTCCCCATGACTGTGT  
GCCCCACGAGCTCCTGAGTGTTCTCATTCTTTACCCACTTCTGCATAGTAGCCCTTGTGCTGAGACTCAGATTC  
TGCACCTGAGTTCATCTCTACTGAGACCATCTCTCTCTTTCTTTCCCTTCTTTTACTTAGAATGTCTTTGTATT  
CATTTGCTAGGGCTTCCATAGCAAAGCATCATAGATTGCTGATTTAACTGTAATTGTATTGCCGTACTGTGGGC  
TGGAAATCCCAAATCTAGATTCCAGCAGAGTTGGTCTTTCTGAGGTCTGCAAGGAAGGGCTCTGTTCCATGCCT  
CTCTCCTTGGCTTGTAGAAGGCATCTTGTCCCTATGACTCTTCACATTGTCTTTATGTACATCTCTGTGCCAAG  
TTTTCCCTTTTTATTAAGACACCAGTCATACTGGCTCAGGGCCACCGCTAATGCCTTAATGAAATCATTTTAAC  
ATTATATTCTCTACAAAGACCTTATTTCCAAATAAGATAATATTGGAGGTATTGGGAATAAAACTCCAACATA  
TAAATTTGAGGAAGGCACGATTTCACTCATAACAATCTTACCCTTTCTTGCAAGAGATGCTGTACATAATTTTC  
CTAATACCTTGGTTTCACTAGTAGTAAACATTATTATTTTTTTATATTGCAAAGGAACATATCTAATCCTTC  
CTATAGAAAGAACAGTATTGCTGTAATGTCCTTTTCTTTCTTCTCATTTCCTCTGCCCTTAAAGATTGAAG  
AAAGAGAACTTGTCAACTCATATCCACGTTATCTAGCAAAGTACATAAGAATCTATCACTAAGTAATGTATCCT  
TCAGAATGTGTGGTTTACCAGTGACACCCCATATTTCATCAAAAATTAAAGCAAGAAGTCCATAGTAATTTAT  
TGCTAATAGTGGATTTTAAATGCTCAGAGTTTCTGAGGTCAAATTTTATCTTTTCACTTACAAGCTCTATGATCT  
TAAATAATTTACTTAATGTATTTTGGTGTATTTTCTCAAATTAATATTGGTGTTCAGACTATATCTAATTCCT  
CTGATCACTTTGAGAAACAACTTTTATTAAATGTAAGGCATTTTCTATGAATTTTAAATATAAAAATAAATAT  
TGTTCTGATTATTACTGAAAAGATGTCAGCCATTTCAATGTCTTGGGAACAATTTTTGTTTTGTTCTGTTTT  
CTTTTGTCTTCAATAAAACAATAGCTGGCTCT

3415/6881  
**FIGURE 3149**

GGCACGAGGCTGAGCGCTCCGACTTCCAGAGGAGCGCTGTGCACGTGGAGAAGAGCGGGGACTCGGCGACCCCTGC  
CCTCCCGACCCCTCATGTTTCGAAGAGCCTGAGTGGGCCGAGGCGGCCCCAGTAGCCGCGGGCCTTGGGCCCCGTAAT  
CTCACGACCTCCGCTGCGGCCTCCTCGCAAAACAAGGGCTCCAAGCGCCGCCAGCTCTTGGCCACATTACGGGC  
CCTAGAGGCAGCATCTCTTTCCAGCATCCCCCAGCCTATGTATAAGTGAAGTCTGAGGAGGAGGAGGAGGAAAG  
GAAGAAGAAATGCCCCAAAAGGCATCATTTGCCAGTGCCTCTGCTGAAGTAGGGAAGAAAGGGAAGAAGAAATG  
TCAAAAACAGGGCCCACCTTGCACTGACTCTGAGGAAGAAGTAGAAAGGAAGAAGAAATGCCACAAACAGGCTCT  
TGTTGGCAGTGAAGTCTGCTGAAGATGAGAAAAGAAAGAGGAAATGCCAGAAACATGCCCCATAAATTACGCCCA  
GCACCTGGACAATGTTGACCAACAGGTCCCAAAGCCTGGAAGGGTAGTACTACAAATGATCCACCAAGCAAAG  
CCCTGGGTCCACTTCCCCTAAACCCCTCATACATTAAGCCGCAAGCAGTGGCGGAACCGGCAAAAGATAAGAG  
AAGATGTAAGAACAAGTTTCAGCCACCTCAGGTGCCAGACCAGGCCCCAGCTGAGGCCCCACAGAGAAGACAGA  
GGTGTCTCCTGTTCCAGGACAGACAGCCATGAGGCTCGGGCAGGGGCTTTGCGAGCCCGCATGGCACAGCGGCT  
GGATGGGGCCCGATTTGCTACCTCAATGAACAGTTGTACTCAGGGCCAGCAGTGTGTCACAGCGTCTCTTCCA  
GGAAGACCCTGAGGCTTTTCTTCTTACCACCGCGGCTTCCAGAGCCAAGTGAAGAAGTGGCCACTGCAGCCAGT  
GGACCGCATCGCCAGGGATCTTCGCCAGCGGCCTGCATCCCTAGTGGTGGCTGACTTCGGCTGTGGGGATTGCCG  
CTTGGCTTCAAGTATCCGGAACCTGTGCATTGCTTTGACTTGGCTTCTCTGGACCCTAGGGTCACTGTGTGTGA  
CATGGCCCAGGTTCTCTGGAGGATGAGTCTGTGGATGTGGCTGTGTTTTGCCTTTCACTGATGGGAACCAACAT  
CAGGGACTTCTAGAGGAGGCAAATAGAGTACTGAAGCCAGGGGGTCTCCTGAAAGTGGCTGAGGTACAGCAGCCG  
CTTTGAGGATGTTGGAACCTTTCTGCGGGCTGTGACCAAGCTAGGCTTCAAGATTGTCTCCAAGGACCTGACCAA  
CAGCCATTTCTTCTGTTTGATTTCAAAAGACTGGGCCCCCTCTGGTAGGGCCCAAGGCTCAGCTTTTACGGCCT  
GCAGCTTACGCCATGTCTCTACAAGCGCAGGTGACTCTGGATCTTCTTGAAAGGGGAGGCAGATCTCAAACCTC  
CAGGCTCAGAAGTGTGAAGACTGTTTCCAGCCTGGCTGTGAGCCAAGACCTGGTTTCTGGTGGACCCTGAGGACA  
AAGTGTGATAAAACCTCTGGCTCAGACTTGCTCTACTGAAGGCTTCTTGGTTATAAGATGCATAAAGTCACTGGG  
GCTAGCTAAACAATAAAGAGTTTATTGTGAGAAAAA

3416/6881  
**FIGURE 3150**

MFEEPEWAEAAPVAAGLGPVISRPPPAASSQNKGSKRRQLLATLRALEAASLSQHPPSLCISDSEEEEEERKKKC  
PKKASFASASAEVGKKGKKKCQKQGPPCSDSEEEVERKKKCHKQALVGSDSAEDEKRKRKCQKHAPINSAQHLDN  
VDQTGPKAWKGSTNDPPKQSPGSTSPKPPHTLSRKQWRNRQKNKRRCKNKFQPPQVPDQAPAEAPTEKTEVSPV  
PRTDSHEARAGALRARMARLDGARFRYLNEQLYSGPSSAAQRLFQEDPEAFLLYHRGFQSQVKKWPLQPVDRIA  
RDLRQRPASLVVADFGCGDCRLASSIRNPVHCFDLASLDPRVTVCDMAQVPLEDESVDVAVFCLSLMGTNIRDFL  
EEANRVLKPGGLLKVAEVSSRFEDVRTFLRAVTKLGFKIVSKDLTNSHFFLDFQKTGPPPLVGPKAQLSGLQLQP  
CLYKRR

3417/6881  
**FIGURE 3151**

ACGGGAGTTCCCCGGAGAAGGATCCTGCAGCCCGAGTCCCGAGGATAAAGCTTGGGGTTTCATCCTCCTTCCCTGG  
ATCACTCCACAGTCCTCAGGCTTCCCCAATCCAGGGGACTCGGCGCCGGGACGCTGCTATGGACGACATTTTCAC  
TCAGTGCCGGGAGGGCAACGCAGTCGCCGTTTCGCCTGTGGCTGGACAACACGGAGAACGACCTCAACCAGGGGGA  
CGATCATGGCTTCTCCCCCTTGCAGTGGGCCTGCCGAGAGGGCCGCTCTGCTGTGGTTGAGATGTTGATCATGCG  
GGGGGCACGGATCAATGTAATGAACCGTGGGGATGACACCCCCCTGCATCTGGCAGCCAGTCATGGACACCGTGA  
TATTGTACAGAAGCTATTGCAGTACAAGGCAGACATCAATGCAGTGAATGAACATGGGAATGTGCCCCCTGACTA  
TGCTGTTTTTTGGGGCCAAGATCAAGTGGCAGAGGACCTGGTGGCAAATGGGGCCCTTGTCAGCATCTGTAACAA  
GTATGGAGAGATGCCTGTGGACAAAGCCAAGGCACCCCTGAGAGAGCTTCTCCGAGAGCGGGCAGAGAAGATGGG  
CCAGAATCTCAACCGTATTCCATACAAGGACACATTCTGGAAGGGGACCACCCGCACTCGGCCCCGAAATGGAAC  
CCTGAACAAACACTCTGGCATTGACTTCAAACAGCTTAACTTCCTGACGAAGCTCAACGAGAATCACTCTGGAGA  
GCTATGGAAGGGCCGCTGGCAGGGCAATGACATTGTCTGTAAGGTGCTGAAGGTTTCGAGACTGGAGTACAAGGAA  
GAGCAGGGACTTCAATGAAGAGTGTCCCCGGCTCAGGATTTTCTCGCATCCAAATGTGCTCCCACTGCTAGGTGC  
CTGCCAGTCTCCACCTGCTCCTCATCTACTCTCATCACACACTGGATGCCATATGGATCCCTCTACAATGTACT  
ACATGAAGGCACCAATTTCTGTCGTGGACCAGAGCCAGGCTGTGAAGTTTGCTTTGGACATGGCAAGGGGCATGGC  
CTTCCTACACACACTAGAGCCCCCTCATCCACGACATGCACTCAATAGCCGTAGTGTAATGATTGATGAGGACAT  
GACTGCCCCGAATTAGCATGGCTGATGTCAAGTTCTCTTTCCAATGTCTGGTTCGCATGTATGCACCTGCCTGGGT  
AGCCCCCGAAGCTCTGCAGAAGAAGCCTGAAGACACAAACAGACGCTCAGCAGACATGTGGAGTTTTCAGTGCT  
TCTGTGGGAAGTGGTGACACGGGAGGTACCCCTTGTCTGACCTCTCCAATATGGAGATTGGAATGAAGGTGGCATT  
GGAAGGCCTTCGGCCTACCATCCACCAGGTATTTCCCTCATGTGTGTAAGCTCATGAAGATCTGCATGAATGA  
AGACCCTGCAAAGCGACCCAAATTTGACATGATTGTGCCTATCCTTGAGAAGATGCAGGACAAGTAGGACTGGAA  
GGTCTTTGCCTGAACTCCAGAGGTGTGGGACATGGTTGGGGGAATGCACCTCCCCAAAGCAGCAGGCCTCTGGT  
TGCTTCCCCCGCTCCAGTCATGGTACTACCCAGCCATGGGGTCCATCCCCTTCCCCCATCCCTACCACTGTGG  
CCCCAAGAGGGGCGGGCTCAGAGCTTTGTCACTTGCCACATGGTGTCTCCAACATGGGAGGGATCAGCCCCGCC  
TGTCACAATAAAGTTTATTATG



3418/6881  
**FIGURE 3152**

ACATGACAGCAGATCCGCGGAAGGGCAGAAATGGGACTCCAAGCCTGCCTCCTAGGGCTCTTTGCCCTCATCCTCT  
CTGGCAAATGCAGTTACAGCCCGAGCCCGACCAGCGGAGGACGCTGCCCCAGGCTGGGTGTCCCTGGGCCGTG  
CGGACCCTGAGGAAGAGCTGAGTCTCACCTTTGCCCTGAGACAGCAGAATGTGGAAAGACTCTTGAGCTGGTGC  
AGGCTGTGTGGATCCAGCTCTCCTCAATACGGAATACTGACCCTAGAGAATGTGGCTGATCTGGTGAGGC  
CATCCCCACTGACCCITCCACACGGTGCAAAAATGGCTCTTGGCAGCCGGAGCCAGAAAGTCCATTCTGTGATCA  
CACAGGACTTTCTGACTTGCTGGCTGAGCATCCGACAAGCAGAGCTGCTGCTCCCTGGGGCTGAGTTTCATCACT  
ATGTGGGAGGACCTACGGAGACCCATGTTGTAAGGTCCCCACATCCCTACCAGCTTCCACAGGCCCTTGGCCCCC  
ATGTGGACTTTGTGGGGGGACTGCACCGTTTTCCCCAACATCATCCCTGAGGCAACGTCTGAGCCGCAGGTGA  
CAGGGACTGTAGGCTGCACTCTGGGGGTAAACCCCTCTGTGATCCGTAAGCGATACAACCTGACCTCACAAGACG  
TGGGCTCTGGCACCAGCAATAACAGCCAAGCCTGTGCCAGTTCTGGAGCAGTATTTCCATGACTCAGACCTGG  
CTCAGTTTCATGCGCTCTTCGGTGGCAACTTTGCACATCAGGCATCAGTAGCCCGTGTGGTTGGACAACAGGGCC  
GGGGCCGGCCGGGATTGAGGCCAGTCTAGATGTGCAGTACCTGATGAGTGTGGTGCCAACATCTCCACCTGGG  
TCTACAGTAGCCCTGGCCGGCATGAGGGACAGGAGCCCTTCTGAGTGGCTCATGCTGCTCAGTAATGAGTCAG  
CCCTGCCACATGTGCATACTGTGAGCTATGGAGATGATGAGGACTCCCTCAGCAGCGCCTACATCCAGCGGGTCA  
ACACTGAGCTCATGAAGGCTGCCGCTCGGGGTCTCACCTGCTCTTCGCCCTCAGGTGACAGTGGGGCCGGGTGTT  
GGTCTGTCTCTGGAAGACACAGTTCGCCCTACCTTCCCTGCCTCCAGCCCTATGTCACCACAGTGGGAGGCA  
CATCCTTCCAGGAACCTTTCTCATCACAAATGAAATTGTTGACTATATCAGTGGTGGTGGCTTCAGCAATGTGT  
TCCCACGGCCTTCATACCAGGAGGAAGCTGTAACGAAGTTCTGAGCTCTAGCCCCACCTGCCACCATCCAGTT  
ACTTCAATGCCAGTGGCCGTGCCTACCCAGATGTGGCTGCACCTTTCTGATGGCTACTGGGTGGTCAGCAACAGAG  
TGCCCCATTCCATGGGTGTCCGGAACCTCGGCCTCTACTCCAGTGTGGGGGGATCCTATCCTTGATCAATGAGC  
ACAGGATCCTTAGTGGCCGCCCCCTCTTGGCTTTCTCAACCCAAGGCTCTACCAGCAGCATGGGGCAGGACTCT  
TTGATGTAACCCGTGGCTGCCATGAGTCTGTCTGGATGAAGAGGTAGAGGGCCAGGGTTTCTGCTCTGGTCTCTG  
GCTGGGATCCTGTAACAGGCTGGGGAACACCCAACCTTCCAGCTTTGCTGAAGACTCTACTCAACCCCTGACCCCT  
TTCCTATCAGGAGAGATGGCTTGTCCCTGCCCTGAAGCTGGCAGTTCAGTCCCTTATTCTGCCCTGTTGGAAGC  
CCTGCTGAACCTCAACTATTGACTGCTGCAGACAGCTTATCTCCCTAACCTGAAATGCTGTGAGCTTGACTTG  
ACTCCCAACCCCTACCATGCTCCATCATACTCAGGTCTCCCTACTCCTGCCTTAGATTCTCAATAAGATGCTGTA  
ACTAGCATTTTTTGAATGCCTCTCCCTCCGCATCTCATCTTTCTCTTTTCAATCAGGCTTTTCCAAAGGGTTGTA  
TACAGACTCTGTGCACTATTTCACTTGATATTCATTCCCAATTCAGTCAAGGAGACCTCTACTGTACCCGTTT  
ACTCTTTCTTACCCTGACATCCAGAAACAATGGCCTCCAGTGCATACTTCTCAATCTTTGCTTTATGGCCTTTCC  
ATCATAGTTGCCACTCCCTCTCCTTACTTAGCTTCCAGGTCTTAACCTCTCTGACTACTCTTGTCTTCTCTCT  
CATCAATTTCTGCTTCTTCATGGAATGCTGACCTTCATTGCTCCATTTGTAGATTTTGTCTCTCTCAGTTTACT  
CATTGTCCCTGGAACAAATCACTGACATCTACAACCATACCATCTCACTAAATAAGACTTTCTATCCAATAAT  
GATTGATACCTCAAATGTAAGATGCGTGATACTCAACATTTTCATCGTCCACCTTCCCAACCCCAACAATTCCAT  
CTCGTTTCTTCTTGGTAAATGATGCTATGCTTTTTTCCAACCAAGCCAGAAACCTGTGTCATCTTTTACCCACC  
TTCAATCAACAAGTCTCTCAATCAACAAGTCTTACTGACTGCACATCTTAAATATATCTTTATCAGTCCACAAGTC  
CTTCCAATTATATTTCCCAAGTATATCTAGAACTTATCCACTTATATCCCCTGCTACTACCTTAGTTTAGGGC  
TATATTCTCTTGAAAAAAGTGTCTTACTTCTGCCAATCCCCAAGTCATCTTCCAGAGTAAATGCAAAATCCC  
ATCAGGCCACTTGGATGAAAACCCCTTCAAGGATTACTGGATAGAATTCAGGCTTTCCCTCCACCCCCCAATCAT  
AGCTCACAACCTTCTCTGCTATTTGTTCTTAAGTAAAAAATCATTTTTCTCTCTCCCTCCCAACCCCAAGGA  
ACTCTCACTCTTGCTCAAGCTGTTCCGTCCTTACCACCCCTGATACAACCTGCCAGGTTAATTTCCAGAATTCT  
TGCAAGACTCAGTTCAGAAGTCACCTTCTTTCGTGAATGTTTTGATTCCCTGAGGCTACTTTATTTTGGTATGGC  
TGAAAAATCCTAGATTTCTAAACAAAACCTGTTTGAATCTTGGTTCTGATATGGACTAGGAGAGAGACTGGGTC  
AAGTAAGCTTATCTCCCTGAGGCTGTTTCTCGTCTGTAAAGTGTGAATATCAATACCTGCCTTTCATAATCACC  
AGGGAATAAAGTGGAAATAATGTTGATAACAGTGCTTGGCACCTGGAAGTAGGTGGCAGATGTTAACGCCCTTCT  
CCCTTGCAGTGCGCCCTGTGCTTACCTCTAGCATTGTAACGACCACATAGTATTGAAATGGCCAGTTTACTTG  
TCTGCCCTTCTTTCCAGACCGTTGGTGCTTAGAGGACTAGAATCGTGTCTTATTTAACTTTGTGTTCCAGGTG  
CTAGCTCAGGAGTTGGCAAATAAGAATTAAATGTCTGTACACCGAAA

3419/6881  
**FIGURE 3153A**

GCTGTGCAGGAGGCGGCGCCCGGGCGTCAGCGGACGGACCGATCGCCGGCCAAGGGCGCGCGGTCCGACGGCGGC  
TGCCCCGAGGGGATCGCGGGCCTCGGAGACAGCGACTGCGGACGATGCGCGGCTTCAGGCCCCGCGGAGCGGGC  
GCTGCCCGGGGGGTGACCGCGGCCGGACGCGCCCCAGCACCGGGCGAGGGAGCCCGCGTCGCGCGGAGGTACAG  
GGAGCCTGAGCTGGAGCCAGGGCCCCAGTGGGACCTGACCCAAAGTCTGAGGTCAAGCTGGGCCCAGAGCCTGGC  
CTGGAGCTGGAGCCCAGGCACAGCTGGACTACCCCTTGTCATGTCAGAAGGAGCTGGGCATTGTGCCTTCCTGCCC  
TGGCATGAAGAGCCCCAGGCCCCACCTCCTGCTACCATTGCTGCTGCTGCTGCTGCTGCTGCTGCTGGGGCTGGGGT  
GCCAGTGCCTGGGGTCAAGGCTGGGAGCCTGGACTTGAGATTGATGAGGAGCAGCCAGCGGGTACACTGATTGG  
CGACATCAGTGCGGGGCTTCCGGCAGGCACGGCAGCTCCTCTCATGTACTTCATCTCTGCCCAAGAGGGCAGCGG  
CGTGGGCACAGACCTGGCCATTGACGAACACAGTGGGGTCTCCGTACAGCCCGTGTCTTGGACCGTGAGCAGCG  
GGACCGCTACCGCTTCACTGCAGTCACTCCTGATGGTGCCACCGTAGAAGTTACAGTGCAGTGGCTGCATCAA  
CGACCATGCTCCAGCCTTCCCACAGGCTCGGGCTGCCCTGCAGGTACCTGAGCATAACAGCTTTTGGCACCCGCTA  
CCCCTGGAGCCTGCTCGTGATGTCAGATGCTGGGCGTCTGGGAACCCAGGGCTATGCGCTATCTGGTGATGGGGC  
TGGAGAGACCTTCCGGCTGGAGACACGCCCCGGTCCAGATGGGACTCCAGTACCTGAGCTGGTAGTTACTGGGGA  
ACTGGACCGAGAGAACCCTCACACTATATGCTACAGCTGGAGGCCTATGATGGTGGTTACCCCCCGGAGGGC  
CCAGGCCCTGCTGGACGTGACACTGCTGGACATCAATGACCATGCCCCGGCTTCAATCAGAGCCGCTACCATGC  
TGTGGTGTCTGAGAGCCTGGCCCCCTGGCAGTCCCTGTCTTGACAGGTGTTTCGCATCTGATGCCGATGCTGGTGTCAA  
TGGGGCTGTGACTTACGAGATCAACCGGAGGCAGAGCGAGGGTGATGGACCCTTCTCCATCGACGCACACACGGG  
GCTGCTGCAGTTAGAGCGGCCACTGGACTTTGAGCAGCGGCGGGTCCATGAAGTGGTGGTGCAAGCACGAGATGG  
TGGGGCTCACCTGAGCTGGGCTCGGCCTTTGTGACTGTGCATGTGCGAGATGCCAATGACAATCAGCCCTCCAT  
GACTGTCTCTTTCTCAGTGCAGATGGCTCCCCCAAGTGTCTGAGGCGCCCCACCTGGACAGCTCGTTGCTCG  
CATCTCTGTGTCAGACCCAGATGATGGTGACTTTGCCATGTCAATGTGTCCCTGGAAGGTGGAGAGGGCCACTT  
TGCCCTAAGCACCCAAGACAGCGTCATCTATCTGGTGTGTGGCTCGGCGGCTGGATCGAGAGGAGAGGGATGC  
CTATACTTGAGGGTTACAGCCACAGACTCAGGCTCACCTCCACTGCGGGCTGAGGCTGCCTTTGTGCTGCAGT  
CACTGATGTCAACGACAATGCACTGCCTTTGACCGCCAGCTCTACCGACCTGAGCCCCCTGCCTGAGGTTGCGCT  
GCCTGGCAGCTTTGTAGTGCGGGTGAAGTGTGCTCGGGATCTGACCAAGGCACCAATGGTCAGGTCACTTATAGCCT  
AGCCCCTGGCGCCACACCCACTGGTTCTCCATTGACCCACCTCAGGCATTATCACTACGGCTGCCTCACTGGA  
CTATGAGTTGGAACCTCAGCCACAGCTGATTGTGGTGGCCACAGATGGTGGCCTGCCCCCTCTAGCCTCCTCTGC  
CACAGTTAGCGTGGCCCTGCAAGATGTGAATGATAATGAGCCCCAATTCCAGAGGACTTTCTACAATGCCTCACT  
GCCTGAGGGCACCCAGCCTGGAACCTTGCTTCTCTGCAGGTGACAGCCACAGACGCGGATAGTGGCCCATTTGGCCT  
CCTCTCCTATTCTTGGGTGCTGGACTTGGGTCTCCGGATCTCCCCATTCCGCATTGATGCCACAGCGGTGA  
TGTGTGCACAACCCGGACCTGGACCGTGACCAGGGGCCCTCAAGCTTTGACTTCACAGTGACAGCTGTGGATGG  
GGGAGGCCCTCAAGTCCATGGTATATGTGAAGGTGTTTCTGTGACGAGAGAATGACAACCTCCTCAGTTTTATCC  
ACGGGAGTATGCTGCCAGTATAAGTGCCAGAGTCCACCAGGCACAGCTGTGCTGAGGTTGCGTGCCATGACCC  
TGACCAGGGATCCCATGGGCGACTCTCCTACCATACTCTGGCTGGCAACAGCCCCCACTTTTACCTTGGATGA  
GCAATCAGGGCTGTTGACAGTAGCCTGGCCCTTGGCCAGACGGGCCAATTCTGTGGTGACAGCTGGAGATCGGGC  
TGAGGACGGAGGTGGCCTACAGGCAGAACCCAGTGCCCGAGTGACATCAGCATTGTGCCTGGAACCCCCACACC  
ACCCATATTTGAGCAACTACAGTATGTTTTTCTGTGCCAGAGGATGTGGCACCAGGCACCACTGTGGGCATAGT  
CCAGGCACACAACCCACCAGGTGCTTGGCACCTGTGACCCTTCCCTATCAGGTGGGGATCCCCGAGGACTCTT  
CTCCCTAGATGCGGTATCAGGACTGTTGCAACACTTCGCCCTCTGGACCGGAGCTACTGGGACCAGTGTGGA  
GCTGGAGGTGCGAGCAGGCAGTGGAGTGCCCCAGCTTTTCGTGTAGCTCGGGTGCCTGTGCTGCTGGATGATGT  
GAATGACAACCTCCCCTGCCTTTCTGTCACCTGAAGACACGGTATTGCTACCACCAAACTGCCCCAGGGACTCC  
CATCTATACACTGCGGGCTCTTGACCCGACTCAGGTGTTAAGTGCAGTACCTTTACCTGCTTGTGCGGGG  
TGGTGGAGCCTTACCCTGGACCCACCACAGCCATGTACGGCTTATGAGGCTCTGGGGCCCTCAGGAGGGCC  
AGCCCATGAGCTGGAGCTGGAGGCCCCGGATGGGGGCTCCCCACCACGCACCAGCCACTTTCGACTACGGGTGGT  
GGTACAGGATGTGGGAACCCGTGGGCTGGCTCCCCGATTCAACAGCCCTACCTACCGTGTGGACCTGCCCTCAGG  
CACCCTGCTGGAACCTCAGGTCTGCAAGTGCAGGCCAAGCACCAGATGGGGGCCCTATCACCTATCACCTTGC  
AGCAGAGGGAGCAAGTAGCCCCCTTGGCCTGGAGCCACAGAGTGGGTGGCTATGGGTGCGGGCAGCACTAGACCG  
TGAGGCCCAGGAATTGTACATACTGAAGTAATGGCAGTGTCTGGGTCCAAGCTGAGTTGGGGCAGCAGACAGG

3420/6881  
**FIGURE 3153B**

CACAGCCACCGTGAGGGTCAGCATCCTCAACCAGAATGAACACAGTCCCCGCTTGTCTGAGGATCCCACCTTCCT  
GGCTGTGGCTGAGAACCAGCCCCAGGGACCAGCGTGGGCCGAGTCTTTGCCACTGACCGAGACTCAGGACCCAA  
TGGACGTCTGACCTACAGCCTGCAACAGCTGTCTGAAGACAGCAAGGCCCTTCGCATCCACCCCAGACTGGAGA  
AGTGACCACACTCCAAACCTGGACCGTGAGCAGCAGAGCAGCTATCAGCTCCTGGTGCAAGTGCAAGGATGGAGG  
GAGCCACCCCGCAGCACCACAGGCACTGTGCATGTTGCAGTGCTTGACCTCAACGACAACAGCCCCACGTTTCCT  
GCAGGCTTCAGGAGCTGCTGGTGGGGGCTCCCTATACAGGTACCAGACCGCGTGCTCCAGGAACACTGGTGAC  
GACTCTGCAGGCGAAGGATCCAGATGAGGGGGAGAATGGGACCATCTTGTACACGCTAACTGGTCTGGCTCAGA  
GCTTTTCTCTGACCCCTCACTCAGGGGAGCTGCTCACTGCAGCTCCCTGATCCGAGCAGAGCGGCCCACTA  
TGTGCTGACACTGAGTGCTCATGACCAAGGCAGCCCTCCTCGAAGTGCCAGCCTCCAGCTGCTGGTGCAAGTGCT  
TCCCTCAGCTCGCTTGGCCGAGCCGCCCCAGATCTCGCAGAGCGGGACCCAGCGGCACCACTGCTGCTGCT  
GACGGTGACAGCAGCTGAGGGACTGCGGCCCGGCTCTCTGTTGGGCTCGGTGGCAGCGCCAGAGCCCGCGGTGT  
GGGTGCACTACCTACACACTGGTGGGCGGTGCCGATCCCGAGGGCACCTTCGCGCTGGATGCGGCCTCAGGGCG  
CTTGTACCTGGCGCGGCCCTGGACTTCGAAGCTGGCCCGCGTGCGCGCTCACGGTACGCGCTGAGGGGCC  
GGGAGGCGCGGCGCGCGGCTGCTGCGAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCAAGTGCA  
GCGCGACCCGCTGGCGCTGGCGCTGCCAGAGAACCCGAGCCCGCGCAGCGCTGTACACTTTCCGCGCGTCCGA  
CGCCGACGGCCCGGCCCAATAGCGAGCTGCGCTACCGCTGCTGCGCCAGGAGCCGCGCTGCCGGCGCTTCG  
CCTGGACGCGCGCACCGGGGCGCTCAGCGCTCCGCGCGGCTGGACCGAGAGACCACTCCCGCGCTGCTGCTGCT  
GGTGAAGCCACCGACCGGCCCGCCAAACGCCAGCCGCGCTGCTGCGAGCGCGCTTTCAGCGCGCTCTTCGTCAC  
GGATGAGAATGACAACGCGCTGTCTTCGCTCGCGCTCACGCGTGCCTCCAGAGGACCAGCGCCTGGGCC  
CGCGGCCCTGACGCTGGTAGCCCGGACCCGATCTGGGCGAGGCTGCACGCGTGTCTATCGGCTGGCATCTGG  
CGGGGACGGCCACTTCCGGCTGCACTCAAGCACTGGAGCGCTGTCCGTGGTGCGGCCGTTGGACCGCAACACG  
AGCTGAGCAGTACTGACAGTGGTGGCTCAGACCAGGCTCCCCGCGCGCTCGGCCACGAGGTCTGACCGT  
CAGTGTGCTGACGTCAACGACGAGGCGCTACTTTCCAGCAGCAGGAGTACAGCGTCTCTTGCCTGAGAACA  
CCCTCCTGGCACATCTCTGCTACCCCTGCGAGCAACCGACCCGACGTGGGGGCAACGGGCAAGTGACTTATGG  
AGGCGTCTCTAGCGAAAGCTTTTCTCTGGATCCTGACACTGGTGTCTCACGACTCTTCGGGCCCTGGATCGAGA  
GGAACAGGAGGAGATCAACCTGACAGTGTATGCCAGGACAGGGGCTCACCTCCTCAGTTAACGATGTCACTGT  
TCGAGTGGCTGTGGAGGATGAGAATGACCATGCACCAACCTTTGGGAGTGCCCATCTCTCTCTGGAGGTGCCTGA  
GGGCCAGGACCCCGAGACCTTACCATGCTTCGGGCTCTGATCCAGATGTGGGAGCCAATGGGCAAGTGAGTA  
CCGCATCCTAGATGGGGACCCATCAGGAGCCTTTGTCTAGACCTTGCTTCTGGAGAGTTTGGACCATGCGGCC  
ACTAGACAGAGAAGTGGAGCCAGCTTTCCAGCTGAGGATAGAGGCCCGGATGGAGGCCAGCCAGCTCTCAGTGC  
CACGCTGCTTTTGACAGTGACAGTGTGGATGCCAATGACCATGCTCCAGCCTTTCCTGTGCTGCTACTCGGT  
GGAGGTGCCGGAGGATGTGCTGCGAGGACCTGCTGCTGCGAGTACAGGCTCATGACCTGATGCTGGAGCTAA  
TGGCCATGTGACCTACTACCTGGGCGCGGTACAGCAGGAGCCTTCTGCTGGAGCCAGCTCTGGAGAAGTGC  
CACAGCTGCAGCCTTGGACAGAGAACAGTGTCCAGCTACACCTTTTCTGTGAGTGAGTGATGGTGAGCTGC  
TGGGCCCCAAGCACACAGTGTCTGTACCATCACGGTGCGGATGTCAATGACCATGACCCACCTTCCCCAC  
CAGTCTCTGCGCTACGTCTGCCCCGCGCAGGCCCCAGCTTCAGTACCCCAACCTGGCTCTGGCCACACTGAG  
AGCTGAAGATCGTGATGCTGGTGCCAATGCTTCCATTCTGTACCGGCTGGCAGGCACACCACCTCCTGGCACTAC  
TGTGGACTCTTACACTGGTGAAATCCGCGTGGCCCGCTCTCTGTAGCTTAGGCCCCGAGATCGTGTCTCTT  
CATTGTGGCCACTGATCTTGGCCGTCCAGCTCGCTCTGCCACTGGTGTGATCATTGTTGGACTGCAGGGGGAAGC  
TGAGCGTGGACCCGCTTTCCCCGGGTAGCAGTGAGGCTACGATTCTGTGAGAATGCGCCCCAGGGACTCCTAT  
TGTCTCCCCACGGCCGTCCATGCAGGAGGCACAAATGGACCCATCACCTACAGCATTCTCAGTGGGAATGAGAA  
AGGGACATTCTCCATCCAGCCTAGTACAGGTGCCATCACAGTTTCGCTCAGCAGAGGGGCTAGACTTCGAGGTGAG  
TCCACGGCTGCGACTGGTGTGCGAGGAGAGTGGAGGAGCCTTTGCCTTCACTGTGCTGACCTGACCTGCA  
AGATGCCAACGACAATGCTCCCCGTTTCTGCGGCCCATATGTGGCCTTCCTTCTGAGTCCCGGCCCTTGGGA  
GGGGCCCCCTGCTGAGGTGGAGGCGGATGACCTGGATCAAGGCTCTGGAGGACAGATTTCTACAGTCTGGCTGC  
ATCCAGCCGGCACGTGGATTGTTCCACGTAGACCCAACACAGGCACTATCACTACCACAGCCATCCTGGACCG  
TGAGATCTGGGCTGAAACACGGTTGGTGTGATGGCCACAGACAGAGGGAGCCAGCCCTGGTGGGCTCAGCTAC  
CTTGACGGTGATGGTCATCGACACCAATGACAATCGCCCCACCATCCCCAACCTGGGAGTCCGAGTGTGAGA

3421/6881  
**FIGURE 3153C**

AGATGCGTTATTGGGCTCAGAGATTGCACAGGTAACAGGGAATGATGTGGACTCAGGACCCGTGCTGTGGTATGT  
GCTAAGCCCATCTGGGCCCCAGGATCCCTTCAGTGTTGGCCGCTATGGAGGCCGTGTCTCCCTCACGGGGCCCCT  
GGACTTTGAGCAGTGTGACCGCTACCAGCTGCAGCTGCTGGCACATGATGGGCCCTCATGAGGGCTGTGCCAACCT  
CACAGTGCTTGTGGAGGATGTCAATGACAATGCACCTGCCCTTCTCACAGAGCCTCTACCAGGTAATGCTGCTTGA  
GCACACACCCCCAGGCAGTGCCATTCTCTCCGTCTCTGCCACTGATCGGGACTCAGGTGCCAACGGTCACATTTT  
CTACCACCTGGCTTCCCTGCCGATGGCTTCAGTGTTGACCCCAACAATGGGACCCTGTTACAATAGTGGGAAC  
AGTGGCCTTGGGCCATGACGGGTGAGGAGCAGTGATGTGGTGCTGGAAGCACGAGACCACGGGGCTCCAGGCCG  
GGCAGCACGAGCCACAGTGCACGTGCAGCTGCAGGACCAGAACGACCACGCCCGAGCTTCACATTGTCACTA  
CCGTGTGGCTGTGACTGAAGACCTGCCCCCTGGCTCCACTCTGCTCACCCCTGGAGGCTACAGATGCTGATGGAAG  
CCGCAGCCATGCCGCTGTGGACTACAGCATCATCAGTGGCAACTGGGGCCGAGTCTTCAGCTGGAACCCAGGCT  
GGCTGAGGCTGGGGAGAGTGTGGACCAGGCCCCGGGCCTGGGCTGCCTGGTGTGCTTGAACCTCTAGACTT  
TGAAAGCCTGACACAGTACAATCTAACAGTGGCTGCAGCTGACCGTGGGCAGCCACCCCAAAGCTCAGTCGTGCC  
AGTCACTGTCACTGTACTAGATGTCAATGACAACCCACCTGTCTTTACCCGAGCATCTACCCTGTGACAGTACC  
TGAAGACACACCTGTTGGAGCTGAGCTGCTGCATGTAGAGGCCCTGACGCTGACCCTGGCCCTCATGGCCTCGT  
GCGTTTCACTGTGAGCTCAGGCGACCCATCAGGGCTCTTTGAGCTGGATGAGAGCTCAGGCACCTTGCGACTGGC  
CCATGCCCTGGACTGTGAGACCCAGGCTCGACATCAGCTTGTAGTACAGGCTGTGACCCTGCTGGTGCACACTT  
TGCTTTGGCACCAAGTGACAATTGAGGTCCAGGATGTGAATGATCATGGCCCAGCCTTCCCACTGAACTTACTCAG  
CACCAGCGTGGCCGAGAATCAGCCTCCAGGCACTCTCGTGACCCTCTGCATGCAATCGACGGGGATGCTGGGGC  
TTTTGGGAGGCTCCGTTACAGCCTGTTGGAGGCTGGGCCAGGACCTGAGGGCCGTGAGGCATTTGCACTGAACAG  
CTCAACAGGGGAGTTGCGTGCGGAGTGCCCTTTGACTATGAGCACACAGAAAGCTTCCGGCTGCTGGTGGGTGC  
TGCTGATGCTGGGAATCTCTCAGCCTCTGTCACTGTGTCGGTGCTAGTACTGGAGAGGATGAGTATGACCCTGT  
ATTTCTGGCACCAAGCTTTCCACTTCCAAGTGCCCGAAGGTGCCCGCGTGGCCACAGCTTGGGTACGTGCAGGC  
CACAGATGAGGATGGGGGTGCCGATGGCCTGGTCTGTATTCCCTTGCCACCTCTTCCCCCTATTTTGGTATTAA  
CCAGACTACAGGAGCCCTGTACCTGCGGGTGGACAGTCGGGCACCAGGCAGCGGAACAGCCACCTCTGGGGGTGG  
GGGCCGAGCCCGCGGGAAGCACACGGGAGCTGAGGCTGGAGGTGATAGCACGGGGGCTCTGCCTGGTTCCCG  
GAGTGGCACAGTGCCTGTGACCGTGGATATACCCACACCCGCACTGGGCCTGGCACCTGACCTCAACCTGCTATT  
AGTAGGGGCCGTGGCAGCCTCCTTGGGAGTTGTGGTGGTGCTGCACTGGCAGCCCTGGTCTTAGGACTTGTTG  
GGCCCGTAGCCGCAAGGCTGAGGCAGCCCTGGCCCAATGTACAGGCAGCACCCTAGCCAGTGACTCACTGCA  
GAACTGGGCCGGGAGCCACCTAGTCCACCACCTCTGAGCACCCTATACACCAGACTCTTCCAGCTATGGTGG  
GCCAGGAGCTGGAGGACCCTACCCCGTGGTGGCTCCTTGGACCCTTCACATTCAAGTGGCCGAGGATCAGCAGA  
GGCTGCAGAGGATGATGAGATCCGCATGATCAATGAGTTCCCCGTGTGGCCAGTGTGGCCTCCTCTCTGGCTGC  
CCGTGGCCCTGACTCAGGCATCCAGCAGGATGCAGATGGTCTGAGTGACACATCCTGCGAACCACCTGCCCCCTGA  
CACCTGGTATAAGGGCCGAAAGGCAGGGCTGCTGCTGCCAGGTGCAGGAGCCACTCTCTACAGAGAGGAGGGGCC  
CCCAGCCACTGCCACAGCCTTCCTGGGGGGCTGTGGCCTGAGCCCTGCACCCACTGGGGACTATGGCTTCCCAGC  
AGATGGCAAGCCATGTGTGGCAGGTGCGCTGACAGCCATTGTGGCCGGCGAGGAGGAGCTCCGTGGCAGCTATAA  
CTGGGACTACCTGCTGAGCTGGTGCCTCAGTTCCAACCCTGACCAGTGTCTTACAGAGATCGCTCGGCTCAA  
GGATGAAGCTCGGCCATGTCCCCAGCTCCCCGATCGACCCACCACCCCTCATCACTGCCGTGGCCCAACCAGG  
AGCCAAGTCTGTGCCCCCAAGCCAGCAAACACAGCTGCAGCCCGGGCCATCTTCCCACCAGCTTCTCACCGCTC  
CCCCATCAGCCATGAAGGCTCCCTGTCTCCTCAGCTGCCATGTCCCCAGCTTCTCACCCCTCTCTGTCTCCTCTGGC  
TGCTCGCTCACCCGTTGTCTCACCATTGTGGGTGGGCCAGGGTCCCTCAGCCTCAGCACTCAGCGCAGAGTCTGG  
CCTGGAGCCACCTGATGACACGGAGCTGCACATCTAGCTGTGGCCAGGCTGGGGCCCCGACCTGGGATGCGCACA  
GTGTCCCCAACGCAGGCCCCACTCTGAGCCTGCCCTGGGCAGCCTCGGACTATGACTGGCTACGGGGAGGGCCACC  
ACCAGGCCCCAGCTCTCCACCCTGAACTCCCCAGCCCCCTCAGAGTACTAGGACCACAGAAGCCCTGTTGCTCAC  
TGACCTGTGACCAGGTCCAATGTGGGGAGAAATATGAAGGAGGTAGCAGCCCTGGGTCTCTCTCAGTGAGGGATC  
CCTGCCCTGCACCAGCACCCTGAGATGGAGCTGAGACTTTATTATTGGGGGTAGGGGGATGGAGGAGGTCCCTC  
CAACATGTTTGGACCCAGCTCCTTTGGGTTCCACTGACACCCCTGCCCCCTGCCCTGCCAGAACCAAGTGCCAT  
TTCTCACTCTGGAGCCTTAATAAACTGCAATTTGT

3422/6881  
**FIGURE 3154**

MKAPCPQLPCPPASHPLCLLWLLAHPLSHHLGWPRVPQPQHSAQSLAWSHLMTRSC TSSCGPGWAPTWDAHSVPN  
AGPTLSLPWAASDYDWLRGGHHQAPALHPELPSPLRVLGPQKPCCSLTCDQVQCGEKYEGGSSPGFSSVRDPCPA  
PAP.

3423/6881  
**FIGURE 3155**

CTTTTTCGTCTGGGCTGCCAACATGCCATCCAGACTGAGGAAGACCCGGAAACTTAGGGGCCACGTGAGCCACGG  
CCACGGCCGCATAGGCAAGCACCGGAAGCACCCCGGCGGCCGGTAATGCTGGTGGTCTGCATCACCACCGGAT  
CAACTTCGACAAATACCACCCAGGCTACTTTGGGAAAGTTGGTATGAAGCATTACCACTTAAAGAGGAACCAGAG  
CTTCTGCCCAACTGTCAACCTTGACAAATTGTGGACTTTGGTCAGTGAACAGACACGGGTGAATGCTGCTAAAAA  
CAAGACTGGGGCTGCTCCCATCATTGATGTGGTGCATCGGGCTACTACAAAGTTCTGGGAAAGGAAAGCTCCC  
AAAGCAGCCTGTCATCGTGAAGGCCAAATTCTTCAGCAGAAGAGCTGAGGAGAAGATTAAAGAGTGTGGGGGGGC  
CTGTGTCCTGGTGGCTTGAAGCCACATGGAGGGAGTTTCATTAAATGCTAACTACTTTTAAAAA

3424/6881  
**FIGURE 3156**

MPSRLRKTRKLRGHVSHGHGRIGKHKHPGGRGNAGGLHHHRINFDKYHPGYFGKVGMMKHYYHLKRNQSFCTVNL  
DKLWTLVSEQTRVNAAKNKTGAAPIIDVVRSGYYKVLGKGKLPKQPVIVKAKFFSRRAEEKIKSVGGACVLVA

3425/6881  
**FIGURE 3157A**

AAGGCATCCAGGATGCGGTGCGGGGCGGCCCGGTGCCCCCGCCCCGTCACGGCAGCCGCGGCGGCCGAGGGGA  
CCGGGCCAGGGCCGGGGGCGGCGGCCGAGCCGCGGTAGCGGCGGCGGGAGGGGCGGCCTGAGGGCGGACGG  
GCGGGCGCCCGGGTTGCGGGGGCTCGGTGCCGTCCGCACTGCCGCGCGGTCTCGGCCCGCGGCCATGAGTGG  
CGGGCGGCGGAGGGGGCTCGGCGCCAGTCGCTTCGCGACTACTTTGTCTCTGCGGACTGGACACGGAGAC  
CGGGCTGGAGCCGACGAGCTGTGCGCATTATGCCAGTACATACAGGCTTCTAAAGCCAGGGATGGTGCCAGCCC  
TTTCATTTCAAGTACGACTGAAGGAGAAAATTTGAGCAGACACCATTGAGAAGAACATTCAAATCTAAGGTCTT  
TGCACGATATCCTGAGAACGTAGAATGGAATCCCTTTGACCAAGATGCAGTAGGAATGCTATGTATGCCGAAAGG  
GCTGGCATTCAAGACCCAGGCTGATCCAGGGAGCCCCAATTCCATGCCTTTATTATCACAAGGGAGGATGGCTC  
TCGGACATTTGGGTTTGCCCTCACATTTTATGAAGAGGTGACTAGCAAGCAGATCTGCAGTGCAATGCAGACCTT  
CTACCACATGCACAATGCTGAGTATGATGTCCTACATGCTCCCCCTGCTGATGACAGAGACCAGAGCAGCATGGA  
GGATGGTGAAGACACTCCTGTGACCAAACTGCAGCGCTTCAACTCCTATGACATTAGCCGGGACACTCTCTACGT  
CTCTAAGTGCATCTGCCTCATCACCCCATGCTTTTCATGAAGGCATGTGCGAGCGTCTGGAGCAACTCCACCA  
GGCAGTCACTTCACTCAGCCCCCTCCACTGCCCTTGAGAGCTACATATAACGTAAGTCTACGAGGTGCCGCT  
CCCACCTCCTGGCGGTCTTGAAGTTTTCTGGGGTCTATGGGCCAATAATCTGCCAGAGACCAAGTACCAATGA  
GCTTCCCCTATTTGACTTTCTGTCAAAGAGGTTTTGAAGTCTCGGGGTGGAGAAATGTGTTTCAGCTTTTAC  
TTGTGCCCTTCTGGAGTTTCAAATCCTGCTCTACTACAGCAATTACCAGAGACTGATGACTGTGGCGGAGACGAT  
TACAGCTCTCATGTTTCTTTCCAGTGGCAGCATGTCTATGTCCCTATTCTCCAGCTTCTCTCCTGCATTTCTT  
AGATGCTCCTGTTCATACCTGATGGGTTTGCAATCAATGGCCTGGATGACCGGTCAAAGCTGGAGCTGCCTCA  
AGAGGCTAACCTCTGCTTTGTGGACATTGACAACCACTTCATTGAGTTGCCAGAGGACTTGCCACAGTTCCTCCAA  
CAAATTGGAGTTTGTCCAGGAAGTCTCTGAGATTCTCATGGCATTGGAATTCCTCCCTGAAGGGAATCTTCATTG  
CAGTGAGAGTGCCCTCAAGCTGAAGAGGCTGCGGGCTCTGAGCTTGTCTCGGACAAGAGGAATGGGAACATTGC  
TGCTCCCCTTTGCATTCCTACGAGCTTCTTAAGGAGAATGAACTATTGCCCGGTGCAAGCCTTGGTCAAGAG  
AACTGGGGTGAGCTTGAAAAGTTGGAAGTGCCTGAAGACCCAGCAGCAATAAGGATCTCAAAGTTCAGTGTGA  
TGAAGAAGAACTCAGGATTTACCAGCTAAACATTAGATCCGGGAAGTTTTTGCAAATCGTTTCACTCAGATGTT  
TGCAGATTATGAGGTGTTTGTCTATCAACCCAGCCAGGATAAGGAATCCTGGTTTACCAACAGGGAGCAAATGCA  
AACTTTGATAAAGCATCTTTCTGTGATCAGCTGAGCCCTACCTGCCCTTCTCTCAAGATTCTTGGAGAC  
CCAGATGTTTGCATCTTTCATTGACAACAAAATAATGTGTCATGATGATGATAAAGACCTGTACTCCGGGT  
ATTTGATTCCCGAGTTGACAAGATCAGGCTGTTGAATGTTGCGACACCTACTCTCCGTACATCCATGTACCAGAA  
GTGTACCACTGTGGATGAAGCAGAGAAAAGCAATTGAGCTGCGTCTGGCAAAAATTGACCATACTGCAATTCACCC  
ACATTACTTGACATGAAGATTGGACAAGGGAAATATGAGCCGGGCTTCTTCCCTAAGCTGCAGTCTGATGTACT  
TTCCACTGGGCCAGCCAGCAACAAGTGACGAAAAGGAATGCCCTGCCAGTGAGGCGGAAAGATCGGCAGAA  
GCAGCACACAGAACACCTGCGTTTAGATAATGACCAGAGGGAGAAAGTACATCCAGGAAGCCAGGACTATGGGCAG  
CACTATCCGCCAGCCCAACTGTCCAACCTCTCTCCATCAGTGATTGCCAGACCAATTGGAAGTTTGTAGAGGG  
CCTGCTGAAGGAATGCCGCAATAAGACCAAGAGGATGCTGGTGGAAAAGATGGGCCGAGAAGCTGTGGAGCTAGG  
GCATGGGGAGGTGAACATCACAGGGGTGGAAGAGAACACCTGATTGCCAGCCTTTGTGATCTCCTGGAAAGGAT  
CTGGAGTCATGGACTACAAGTGAAACAGGGGAAATCAGCCTTATGGTCCCACCTGTTACATTATCAGGACAACCG  
GCAGAGAAAACCTCACATCAGGAAGCCTCAGTACCTCAGGAATACTTCTTGATTGAGAACGTAGGAAGTCTGATGC  
CAGCTCACTCATGCCTCCCTGAGGATCTCCCTGATTGAGGATATGAGGCACATCCAGAACATCGGGGAGATCAA  
GACTGATGTGGGATAGGCAGAGCATGGGTGCGACATGTCTGGAAGAAAGTTACTTTTACACACCTGAGCAGCTC  
TCTCAGACATGAGCTCACAAAAGTTATATAAGCGCTATGCCTTCTGCGCTGTGATGACGAGAAGGAGCAGTTC  
CTCTATCACTCCTGTCTTTCAATGCCGTGATTACTTTTGCTTACCAATGTCTTCAAACTATCCTGATCCCG  
TACCACATTCTGATCGTACCAAGCAAGAAGCTGGGGGGTCCATGTTCACTGCCAACCCATGGATCTGTATATCA  
GGAGAATTGGGTGAGACACAGATCATGCAGATTCCCAGGAATGTGCTAGAGATGACCTTCGAGTGCCAGAACTTG  
GGGAAGCTTACTACTGTCCAGATTGGCCATGATAACTCTGGGCTGTAATGCAAAATGGCTGGTGGAGTATGTGATG  
GTCAGGAATGAGATCACAGGACATACCTACAAGTTCCCGTGTGGCCGGTGGTTAGGGAAGGGCATGGATGATGGA  
AGCCTGGAGCGGATCCTAGTTGGGGAGCTGCTCACATCCCAGCCTGAGGTGGATGAGAGGCCATGCCGACCCCG  
CCGCTGCAGCAGTCCCCCAGTGTCTATCCGGAGGCTTGTTACCATCTCACCCAACAACAAGCCCAAGCTGAACACT  
GGGCAGATCCAGGAGTCCATCGGGGAGGCAGTCAATGGCATTGTGAAGCACTTCCATAAGCCTGAGAAAGAGCGA



3426/6881  
**FIGURE 3157B**

GGCAGTCTGACGCTGTTGCTCTGTGGAGAGTGTGGCCTTGCTCTCGGCCTTGGAACAGGCTTTCCAGCATGGATT  
AAATCGCCCCGGCTCTTCAAAAATGTCTTCATTTGGGATTTCTGGAAAAAGCACAAACCTATTATGAGACATTA  
GAGAAGAATGAAGTAGTCCCTGAGGAAAACCTGGCATAACAAGAGCCCGAACTTCTGCCGATTTGTCACTGCAATC  
AACAACTACTCCCCGGAACATCGGCAAGGATGGCAAGTTTCAGATGCTGGTGTGCTTGGGAGCCAGAGATCACCTC  
CTACACCACTGGATTGCCCTGCTGGCTGACTGCCCCATCACTGCACACATGTATGAGGATGTGGCACTGATCAAA  
GACCATACTTGTCAATTCTTGATTTCGTGTGCTGCAGACATTGCAGGAGTTCAACATCACGCTGGAGACGTCC  
CTTGTCAAGGGCATCGACATCTGACCTCCCAGCACCAGCCAGCAGCAGGACTGAGAAAGACTCACCTGCAGCTC  
TGACCTTTTTTCCCAAAGGGACTTAAGCGATTGTGCAGGAGTAGGAGACAAAATGTACTCACTGTAAGAAAGAA  
AACTAGAGGATTTTGAATAAATAATCTATTTTAGAGTTTATTTGCTGATTTGCTTTTACACACTTTCATGTG  
AAAGAGTGATAGGGAGAGGGAGCGAGGCTGGTGCCGCTATTTTGAAGCTGGTGCCCTCCCTCGCCGTGGCCACA  
TGCTGGAACCTGAGGCCTCCCTGGACTGAGCCTGTGCACTGCGTGCGGGACAGTTATGTTTCTTGCCCCGTGCGC  
ATTAATGAGGCCCTTCCACATCATTTTAACTAATGTTTTCTATATTAACATTATTATGGATATTTGGCTTTC  
ATAGGCCACACACAGGTGTGCTGCGCGGAAGCCCCATGCTCCAATCAAAGGGATTTTAGTAGTGCTCTAAGC  
AAGCACCGATGAGTCAGTCCCACGTATTTTCTTTTTTGTGAGTATTGTTTGGGAAGGAGACATGCCGGGATGTGT  
CATCGTGCCAAATACCACATTTCCTGTTGGCACAGTTTCACAGAAGTAAACATAAGCATGTTTAAACAGGTTTTT  
CTTTTCTTTTTTCTTTTTTAAATGTTTTATTTATTTAACCCGCCATTGTGTGTTTTTAAGTATTTTCTTTTTT  
AAGGAAAGGAAAAGCTTGTCACAATCTAACTGGCTATGTTATTATTATTAAATTTATGTTTGAACCTTAGAAAC  
CAGCTACAGTATGGCCCACTTAATAAAACACCTGAAAC

3427/6881  
**FIGURE 3158**

MSGGGGGGSAPSRFADYFVICGLDTETGLEPDELSALCQYIQASKARDGASPFISSTTEGENFEQTPLRRIFKS  
KVLARYPENVEWNPFDDQDAVGMLCMPKGLAFKTQADPREPQFHAFIITREDGSRTFGFALTIFYEETSKQICSAM  
QTLYHMHNAEYDVLHAPPADDRDQSSMEDGEDTPVTKLQRFNSYDISRDTLYVSKCICLITPMSFMKACRSVLEQ  
LHQAVTSPQPPPLPLESYIYNVLYEVPLPPPGRSLKFSGVYGP IICQRPSTNELPLFDFPVKEVFELLGVENVFQ  
LFTCALLEFQIILYSQHYQRLMTVAETITALMFPFQWQHVVYPILPASLLHFLDAPVPYLMGLHSNGLDDRSKLE  
LPQEANLCFVDIDNHFIELPEDLPQFPNKLEFVQEVSEILMAFGIPPEGNLHCSESASKLKRLRASELVSDKRNG  
NIAGSPLHSYELLKENETIARLQALVKRTGVSLEKLEVREDPSSNKDLKVQCDEEELRIYQLNIQIREVFANRET  
QMFADYEVFVIQPSQDKESWFTNREQMNFQDKASFLSDQPEPYLPFLSRFLETQMFASFIDNKIMCHDDDDKDPV  
LRVFDSDVDKIRLLNVRTPTLRTSMYQKCTTVDEAEKAIELRLAKIDHTAIHPHLLDMKIGQGYEPGFFPKLQS  
DVLSTGPASNKWKTRNAPAQWRRKDRQKQHTHLRLDNDQREKYIQEARTMGSTIRQPKLSNLSPSVIAQTNNKF  
VEGLLKECRNKTKRMLVEKMGREAVELGHGEVNITGVEENTLIASLCDLLERIWSHGLQVKQKSALWSHLLHYQ  
DNRQRKLTSGSLSTSGILLDSERRKSDASSLMPPLRISLIQDMRHIONIGEIKTDVG

3428/6881  
**FIGURE 3159**

CGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAG  
GCCTTTTAGAAAACATGGAGTTGTTCCCTTTGGCCACATATATGCGAATCTATAAGAAAGCTGATATTGTAGACAT  
CAAGGGAATGGGTACTGCTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAACTGGAAGAGTCTACAATGT  
TACCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAAGGTGCG  
TATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACACGTGAAGGAAAATGATCAGAAAAAGAA  
AGACGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCGCCAGCCTGCTCCACCCAGAGAAGCACACTTTGTGAG  
AACCAACGGGAAGCAGCCTGAGCTGCTGGAACCTATTTCTATGAATTCATGGCATAATAGGTGTTAAAAAAA  
AATAAAGGACCTCTGGGCTGTAAAAAAAATAAAAAAGAAAAAAAAAAAAAGAAAAGAAAAAA  
AA

3429/6881  
**FIGURE 3160**

MTNTKGKRRGTRYMFSRPFRKHGVVPLATYMRIYKKADIVDIKGMGTAQKGMPHKCYHGKTGRVYNVTQHAVGIV  
V NKQVKGKILAKRIKVRIEHIKHSKSRDSFLKHVKENDQKKKDAKEKGTWVQLKRQPAPPREAHFVRTNGKQPEL  
LEPISYEFMA

3430/6881  
**FIGURE 3161A**

GC GGAGGTTGAGGGGCGTCCGAGGCGCGGAGGGGCTGGCTGGGCAGGAGGGGTTGGCGGGGCAGCAGGGCCGCGG  
CCATGGGGAGCTTGAAGGAGGAGCTGCTCAAAGCCATCTGGCAGCCTTCACCGCACTCGACCAGGACCACAGCG  
GCAAGGTCTCCAAGTCCCAGCTCAAGGTCTTTCCCATACCTGTGCACGGTGTGAAGGTTCTCATGACCCAG  
TTGCCCTTGAAGAGCACTTCAGGGATGATGATGAGGGTCCAGTGTCCAACCAGGGCTACATGCCTTATTTAAACA  
GGTTCATTTTGAAAAGGTCCAAGACAACCTTGACAAGATTGAATTCAATAGGATGTGTTGGACCCCTCTGTGTCA  
AAAAAACCTCACAAGAATCCCTGCTCATTACAGAAGAAGATGCATTTAAATATGGGTTATTTTCAACTTTT  
TATCTGAGGACAAGTATCCATTAATTATTGTGTGAGAAGAGATTGAATACCTGCTTAAGAAGCTTACAGAAGCTA  
TGGGAGGAGGTTGGCAGCAAGAACAATTTGAACATTATAAAATCAACTTTGATGACAGTAAAAATGGCCTTTCTG  
CATGGGAACCTATTGAGCTTATTGAAAATGGACAGTTTAGCAAAGGCATGGACCGGCAGACTGTGTCTATGGCAA  
TTAATGAAGTCTTTAATGAACCTATATTAGATGTGTTAAAGCAGGGTTACATGATGAAAAAGGGCCACAGACGGA  
AAAACCTGGACTGAAAGATGGTTGTACTAAAACCCAACATAATTCTTACTATGTGAGTGAGGATCTGAAGGATA  
AGAAAGGAGACATTCTCTTGATGAAAATTGCTGTGTAGAGTCCCTGCCTGACAAAGATGGAAGAAAATGCCTTT  
TTCTCGTAAAAATGTTTTGATAAGACTTTTGAATCAGTGCTTCAGATAAGAAGAAGAAAACAGGAGTGGATTCAAG  
CCATTCTTCTACTATTCTGTGTAAGCTGGGACGCCCTCCACCACACAAAGAAGCCCGCCAGCGTCGGAAAAG  
AACTCCGGAAGAAGCAGCTGGCTGAACAAGAGGAACTGGAGCGACAAATGAAGGAACCTCCAGGCCGCCAACGAAA  
GCAAGCAGCAGGAGCTGGAGGCCGTGCGGAAGAACTGGAGGAAGCAGCATCTCGTGCAGCAGAAGAGGAAAAGA  
AACGCCCTTCAGACTCAAGTGAACCTTCAGGCCAGGTTTCAGCACAGAGCTGGAAAGAGAGAAGCTTATCAGACAGC  
AGATGGAAGAACAGGTTGCTCAAAGTCCCTCTGAACCTGGAACAGTATTTACAGCGAGTACGGGAGCTGGAAGACA  
TGTACCTAAAGCTGCAGGAGGCTCTTGAAGATGAGAGACAGGCCCGGCAAGATGAAGAGACAGTGCAGGAGCTTC  
AGGCCAGGTTGTTGGAGGAAGAGTCTTCCAAGAGGGCTGAACTAGAAAAGTGGCACTTGGAGCAGCAGCAGGCCA  
TTCAGACAACCGAGGCGGAGAAGCAGGAGTTGGAGAATCAGCGTGTCTGAAGGAACAGGCCCTGCAGGAGGCCA  
TGGAGCAGCTGGAGCAGCTTGAAGTGAACGGAAGCAAGCACTTGAGCAGTACGAGGAAGTTAAAAAGAGCTGG  
AGATGGCAACTAATAAGACCAAGAGCTGGAAGGACAAAGTGGCCCATCATGAAGGATTAATTCGACTGATAGAAC  
CAGGTTCAAAGAACCCTCACCTGATCACTAACTGGGGACCTGCAGCTTTCAGTGGGAGCAACTTGAAGAGAGAG  
AGAAAGAACTGGAAGAGAGAAAAGACCACGGAGTGAAGTGTGCTGGCAGTCACGTGAGTTATGTAGATACTGC  
ATGGCAGGAGAGCTTTACGCTAAAGACAAAAGAAACAGCTTTGGGGGCCGGGCGTGGTGGCTCACGCCTGTAATC  
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCACCTGAGGTTCAGGAGTTCAAGAGCAGCTGGCCAACCTGGTGA  
AACCTGTCTCTACTAAAAATACAAAAAAATTAGCTGAGCGTGGTGGCGGGCGCTGTAATCCCAGCTACTTGG  
GAGGCTGAGGCAGGAGAATCACTTGAACGTGGGAGGCGGAGGTTGCAGCGAGCTGAGATCATGCCGTTGTACTCC  
AGCTTGGGCAACAGAGTGAGACTCCATCTCAAAACAAAACAAAACAAAACAAAACAAAACAAAACCCGGCTTTGCTG  
CTTTTAACTCTTCTCTCTTCTGTGCCTCTCTAAGTGGGTGAGTATCCTAAGGAAGCCTTCTTATTTATCTTCTG  
CAAACAAGGGTTACCTGAAAAGAAAAAAAGTCAACATTGTCAAGCTGTTTGTCTTCTTCTTGAACAT  
CACCTTCTGAAATTTGTCTTTTAGCTCTCTCAGATTCTTCCCCAATGAGGCAGGGTGCAGACAGCACAGTCAGC  
TCTGCAGAGTTTGGAGGGGCTCACTGCCACTGGGTACTCAGAACCTCTGTGGACTGGATGTCAGCTCTTTCCTT  
GGCAGCGTGTTCCTTTTCCGAGTATGTGCTGTAAACTAGATTGGCCGGTTCGCTTTCCTTTCCTGACACTTG  
ACATGGAATGCCTTTGACCATTGGTGCTCTGACAGAGAAGTCATGGAGTCATTGCCATTTCTGGTTGCCCTTTT  
GGAATGTGATCCTGTTAGTAGAGGTTTTCTAGCTTCTACTAAGATATTTCTTCCCTAACCATCATACACTTGGC  
ATGTTTCATTCCCATCTCCTTTCCCTCACCTTAAAGGAGACTACCCCTTTGCCCCATATTGTCAACCTAATTTT  
CTCTCGTACTCTCTCTAGTGAATGATGTGCTACCAAGTATATGCCAGGCTGTGAGAGGATTACTGAGTAGTAG  
AAAGAAGCTAATTTGAAATAAAAAATTATTTGTATAATTAAGAAAGCAGATTAGATGCACATGGTCAACAGGAAGT  
TGACTGTATGTCTGCTAGTTAGATTCAAACATCATAAAGATGATAGCATGTCAATATATTAGCCTAGCCATTAT  
GTTAGCCTTTGTTAGGTGGGCAGCTTTTCTGCTTTTCCCTTCTCTGTGGTGACAACGGAGGAAATATCCAACA  
GAAATACGTCTAACAGGGAAATTTGGGATCATAGTTTATATGCATCTGATTGAAAGGAGTATTGAGGAAGGTTT  
CATATATGATCTATCTTTGGATTAAAAAGAACATTTATGAAATCAAGCCTTCTAACACTAGTTATAATTGAGAAG  
CAACAGTAACTCCGTGGACAGCAATCAAGCTTAAATTTGTAATAAATATGGGGATAATTCAGTTGTTGCAAAAA  
AAGGGCAGAATTCAGTAGAATAAAGTCTTTTCTCTTACAGGTATTAAATGAGGACAGAGAACCTCAGGTGTCT  
TATGCTAGTGCTTGCTGAGTGCATACTAAGAAAGCAATTCAAATAGATGTATACATCTAGAGAGAGTGGTATTA  
GAGATTCACTGTATGTATTTATTTACATGAGAGGAACTGGAATATAATCCCATAAATTATCACCTTTTATGACT

3431/6881  
**FIGURE 3161B**

GGAAATATTTGCCAATGAAGAAATGGTCTGTAGGTATTTGTCTTAAGATTTTGGCTGTTAATAAAAATGTAA  
CTTTAACGGTTTCTTATAGTTGCCTTTATAAAGTGTATTGTCTAAAATATTTTGTATCATGTGCCTTTGAAATT  
TGACAGCTGATTTGGGTGTTGGATTTCTGCCAGCCATTTATCAGTATTATCATTTTATTCAGTAGCTGGCAGGT  
GTATTAGACCAACGAGACTTAGGTAAGGAATGGAACCTTTCCTGTGGTTTACTGCACATTACACCAGAAGACTC  
CAGTATCCCTCATTCCAGAATGAGGAAAAAGTATTCTACAAAGAACCTAATCACCTCTGTGAAATCTATGGGATG  
GAAACAGTGTGGCCTTAGGAGTCAAATAGTCTCTGCATGGTGGGGAGGATCATGATGGAATATGTGAATTTCTAC  
TTCTAGAAGTTGTGAAATAGGTCTGCACTTTGCAGAATGTCTTCTTTAAACCTGGCTTATCCACAGCTGTA  
GCTGATAACATGACCTGGGGCTTAGCTGCTCTAGCCCTGGGTCTTGGAGACCTCACACTGCCGCCCCCTGGCC  
ATCCACCTAAGGACTGCCCTGCTTTCTGGTCACATGTGGACCTTGATACGACTAAGCGGTTACATATGTGGTTGTG  
CAAAAGCTTTCTGTTTAAATGCATAGTGTACCGATTTACATCTTGGTTTTTCACTGGCACTATGTCTAGGAGGCAA  
TATCCTTTTAAACAGTGCCTTGGCTAAGATAGATACTTGTGAATCAAAGATAGCACAGAAATGAACTAAGTATAT  
CCCATTTGGAATTATATTTTGATACTATTTAAATGGTTTCACCTGTTAAAGGGCCAACAGAACTCTTGGTTTTA  
CTTTTGTAATTACTGTACAGAAAATTTCAAGAGTGTGTGAGTGTCTGTCATCAGGTGTTTTCTTAATAAGTAGG  
GATATGATCATTTACAGGAATTATATATGAAAAAGTTTTTGAAATGTATTTTGTGATGTGCTATGTTGAGGGG  
AAACCAATATTTATGATTTTAAACATTTCGTATGAAAACATTGTACAATGTAATATGCTCAACTTTCTCAATTT  
TTTGCTAATTTTCTAAGATACATTAAAAATGTTTATATTTTTTTTAAAGTAAATGGACCCAGTAAGAAAATT  
AAAAATACCAGAACATACACTT

3432/6881  
**FIGURE 3162**

MGSLKEELLKAIWHAFTALDQDHSGKVSQSOLKVLSHNLCTVLKVPHPDPALEEHRDDDEGPVSNQGYMPYLN  
FILEKVQDNFDKIEFNRMCTLCVKKNLTKNPLITEEDAFKIWVIFNFLSEDKYPLIIVSEEIEYLLKKLTEAM  
GGGWQQEQFEHYKINFDDSKNGLSAWELIELIGNQFSGMDRQTVSMAINEVFNELILDVLKQGYMMKKGHRRK  
NWTFRWFLKPNIIISYYVSEDLKDKKGDILLDENCCVESLPDKDGKKCLFLVKCFDKTFEISASDKKKKQEWIQA  
IHSTIHLLKLGSPPPHKEARQRRKELRKKQLAEQEELERQMKELQAANESKQEQLEAVRKKLEEAASRAAEEKK  
RLQTQVELQARFSTELEREKLIQQMEEQVAQKSSELEQYLQVRVRELEDMYLLKQEALEDERQARQDEETVRKLQ  
ARLLEEESKRAELEKWHLEQQQAIQTTEAEKQELNQRVLKEQALQEAMEQLEQLELERKQALEQYEEVKKKLE  
MATNKTTSWKDKVAHHEGLIRLIEPGSKNPHLITNWGPAAFTAELEEREKNWKEKKTE

3433/6881  
**FIGURE 3163A**

CAGCAGTGAGTCGGAGCTCTATGGAGGTGGCAGCGGGTACCGAGTGGCGGCTGCAGCAGCGACTCCTCTGAGCTG  
AGTTTGAGGCCGTCCCCGACTCCTTCCTCCCCCTTCCCTCCCCCTTTTTTTTGTTCGGTTCCTTTCCCTC  
CCTTCCTATCCCCGACGACCGGATCCTGAGGAGGCAGCTGCGGTGGCAGCTGCTGAGTTCTCGGTGAAGGTATT  
TCATTTCTCCTGTCCCCTCCCCCCCCCATCTATTAATATTATTCTTTTGAAGATTCTTCGTGTCAAGCC  
GCCAAAGTGAGAGTGCGATTGCAGAAGGGGTGCTTCTCGTTTCAGTGCTTCTTCGGGCGGAGGGAAGTAGG  
GGTGACCTCAGCACTATCCCAAGACTGCTGGCAACAGCGAGTTCCTGGGGAAAACCCAGGGCAAACGCTCAG  
AAATGGATTCTGCACGAAGCACTAGACGAGATGACAACCTCCGACGAAACAACCTCCGCAAACGAAAAGAACGA  
CATGATGCAATCTTCAGGAAAGTAAGAGGCATACTAAATAAGCTTACTCCTGAAAAGTTTGACAAGCTATGCCTT  
GAGCTCCTCAATGTGGGTGTAGAGTCTAAACTCATCCTTAAAGGGTCATACTGCTGATTGTGGACAAAGCCCTA  
GAAGAGCCAAAGTATAGCTCAGTGTATGCTCAGCTATGTCTGCGATTGGCAGAAGATGCACCAAACCTTTGATGGC  
CCAGCAGCAGAGGGTCAACCAGGACAGAAGCAAAGCACCACATTAGACGCTCCTAATTTCCAAATTACAAGAT  
GAATTTGAAAACCGAACTAGAAATGTTGATGTCTATGATAAGCGTGAAAATCCCCCTCCTCCCCGAGGAGGAGAA  
CAGAGAGCCATTGCTAAGATCAAGATGTTGGGAAACATCAAATTCATTGGAGAGCTTGGCAAGCTTGATCTTATT  
CACGAATCTATCCTTCATAAGTGCATCAAAACACTTTTGGAAAAGAAGAAGAGAGTCCAACCTCAAAGATATGGGA  
GAGGATTTGGAGTGCCTCTGTCTAGATAATGAGGACAGTGGGACCTAGATTAGACCATGAACGAGCCAAAGTCTTA  
ATGGATCAGTACTTTGCCCCAATGTGCTCCTTGATGTTAAGTAAGGAATTGCCAGCAAGGATTTCGTTTCTCTGCTG  
CAGGATACCGTAGAGTTGCGAGAACACCATTGGGTTCTCGCAAGGCTTTTCTTGACAATGGACCAAAGACGATC  
AATCAAATTCGTCAAGATGCAGTAAAAGATCTAGGGGTGTTTATTCCTGCTCCTATGGCTCAAGGGATGAGAAGT  
GACTTCTTTCTGGAGGGACCGTTCATGCCACCCAGGATGAAAATGGATAGGGACCCACTTGGAGGACTTGTCTGAT  
ATGTTTGGACAAAATGCCAGGTAGCGGAATTGGTACTGGTCCAGGAGTTATCCAGGATAGATTTTACCCACCATG  
GGACGTCATCGTTCAAATCAACTCTTCAATGGCCATGGGGGACACATCATGCCTCCACACAATCGCAGTTTGGAA  
GAGATGGGAGGCAAGTTTATGAAAAGCCAGGGGCTAAGCCAGCTCTACCATAACCAGAGTCAGGGACTCTTATCC  
CAGCTGCAAGGACAGTGAAGGATATGCCACCTCGGTTTTCTAAGAAAGGACAGCTTAATGCAGATGAGATTAGC  
CTGAGGCCCTGCTCAGTCTGTTTCTAATGAATAAAAAATCAAGTGCCAAAGCTTCAGCCCCAGATAACTATGATTCCT  
CCTAGTGCACAACCACCACGCACTCAAACACCACCTCTGGGACAGACACCTCAGCTTGGTCTCAAACTAATCCA  
CCACTTATCCAGGAAAAGCCTGCCAAGACCAGCAAAAAGCCACCACCGTCAAAGGAAGAACTCCTTAACTAACT  
GAAACTGTTGTGACTGAATATCTAAATAGTGGAAATGCAATGAGGCTGTCAATGGTGTAAAGAGAAATGAGGGCT  
CCTAAACACTTTCTTCTGAGATGTTAAGCAAAGTAATCATCTGTCACTAGATAGAAGCGATGAAGATAAAGAA  
AAAGCAAGTTCCTTGATCAGTTTACTCAAACAGGAAGGGATAGCCACAAGTGACAACCTTCATGCAGGCTTTCTCTG  
AATGTATTGGACCAAGTGTCCCAAACCTGGAGGTTGACATCCCTTTGGTGAAATCCTATTTAGCACAGTTTCAGCT  
CGTGCCATCATTTCAGAGCTGGTGAGCATTTCAGAAGTAGCTCAACCACTAGAAAGTGGCACCCATTTTCTCTCTC  
TTCCTACTTTGCTTCAGCAGTTAGCTAAATTACAAGATCGAGAATGGTTAACAGAACTTTTTCAACAAAGCAAG  
GTCAATATGCAGAAAATGCTCCCAGAAATTGATCAGAATAAGGACCGCATGTTGGAGATTTTGAAGGAAAGGGA  
CTGAGTTTCTTATTTCCACTCCTCAAATTGGAGAAGGAAGCTGTTGAAGCAAATAAAGTTGGATCCATCCCCCTCAA  
ACCATATATAAATGGATTAAAGATAACATCTCTCCCAAACCTCATGTAGATAAAGGATTGTGAACATCTTAATG  
ACTAGCTTCTTACAGTACATTTCTAGTGAAGTAAACCCCCCAGCGATGAAACAGATTATCCTCTGCTCCTTCC  
AAAGAACAGTTAGAGCAGGAAAAACAACCTACTACTATCTTTCAAGCCAGTAATGCAGAAATTTCTTCATGATCAC  
GTTGATCTACAAGTCAGTGCCCTGTATGCTCTCCAGGTGCACTGCTATAACAGCAACTTCCCAAAGGCATGTTA  
CTTCGCTTTTTTGTGCACTTCTATGACATGGAAATTATTGAAGAAGAAGCTTTCTTGGCTTGGAAAGAAGATATA  
ACCCAAGAGTTTCCGGGAAAAGGCAAGGCTTTGTTCCAGGTGAATCAGTGGCTAACCTGGTTAGAACTGCTGAA  
GAAGAAGAATCAGAGGAAGAAGCTGACTAAAGAACCAGCCAAAGCCTTAAATTGTGCAAAACATACTGTTGCTAT  
GATGTAACCTGCATTTGACCTAACCACTGCGAAAATTCATTCCGCTGTAATGTTTTACAATATTTAAAGCAGAAG  
CACGTCAGTTAGGATTTCTTCTGCATAAGGTTTTTTGTAGTGTAATGTCTTAATCATAGTCTACCATCAAATA  
TTTTAGGAGTATCTTTAATGTTTAGATAGTATATTAGCAGCATGCAATAATTACATCATAAGTTCTCAAGCAGAG  
GCAGTCTATTGCAAGGACCTTCTTTGCTGCCAGTTATCATAGGCTGTTTAAAGTTAGAAAACCTGAATAGCAACAC  
TGAATACTGTAGAAATGCACCTTGGCTCAGTAATACTTGAGTTGTTGCAATATTTGATTATCCATTTGGTTGTAC  
AGAAAAATCTTAACTGTAATTGATGGTTGTTGCCGTAATAGTATATTGCCTGTATTTCTACCTCTAGTAATGGG  
CTTTATGTCTAGATTTTAAATATCCTTGAGCCTGGGCAAGTGCACAAGTCTTTTTAAAGAAACATGGTTTACTT



3434/6881  
**FIGURE 3163B**

GCACAAACTGATCAGTTTTGAGAGATCGTTAATGCCCTTGAAGTGGTTTTTGTGGGTGTGAAACAAATGGTGAG  
AATTGGAATTGGTCCCTCCTATTATAGTATTGAAATTAAGTCTACTTAATTTATCAAGTCATGTTTCATGCCCTGA  
TTTTATATACTTGTATCTATCAATAAACATTGTGATACTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3435/6881  
**FIGURE 3164**

VESAIAEGGASRFSASSGGGSRGAPQHYPKTAGNSEFLGKTPGQNAQKWIPARSTRRDDNSAANNSANEKERHD  
AIFRKVRGILNKLTPEKFDKLCLELLNVGVESKLILKGVILLIVDKALEEPKYSSLYAQLCLRLAEDAPNFDGPA  
AEGQPGQKQSTTFRRLISKQDEFENRTRNVDVYDKRENPLLPEEEEQRAIAKIKMLGNIKFIGELGKLDLIHE  
SILHKCIKTLLEKKKRVQLKDMGEDLECLCQIMRTVGPRLDHERAKSLMDQYFARMCSLMLSKEIPARIRFLLQD  
TVELREHHWVPRKAFLDNGPKTINQIRQDAVKDLGVFIPAPMAQGMRSDDFFLEGPFMPPRMKMDRDPGLGLADMF  
GQMPGSGIGTGPGVIQDRFSPTMGRHRSNQLFNHGGGHIMPPTQSQFGEMGGKFMKSQGLSOLYHNQSQGLLSQL  
QGQSKDMPPRF SKKGQLNADEISLRPAQSFLMNKNQVPKLQFPQITMIPPSAQPPRTQTTPPLGQTPQLGLKTNPPL  
IQEKPAKTSKKPPPSKEELLKLTETVTEYLNNGNANEAVNGVREMRAPKHFLPEMLSKVIIISLDRSDEDKEKA  
SSLISLLKQEGIATSDNFMQAFNLVLDQCPKLEVDIPLVKSYLEAQFAARAIISELVSISELAQPLESGTHFPLFL  
LCLQQLAKLQDREWLTELFQQSKVNMQKMLPEIDQNKDRMLEILEGKGLSFIFPLLKLEKELKQIKLDPSPQTI  
YKWIKDNISPKLHVDKGFVNILMTSFLQYISSEVNPPSDETDSSAPSKEQLEQEKQLLSFKPVMQKFLHDHVD  
LQVSALYALQVHCYNSNFPKGMLLRFFVHFYDMEIEEEAFLAWKEDITQEFPKGKALFQVNQWLTWLETAEEE  
ESEEEAD

3436/6881  
**FIGURE 3165**

AGCTCTTTGTTCTCCAAGCAGGAAGGCGGCCTCCTGCCCACCCGCGCCTCCAAGCGGGCCCCCTCCTGCACCAT  
AAATCCCCCGGGACTGACAACCGCCTCGCCACGGCCTCCTCTGCTGACAAAAGGGGCAGAAATCATCACTCTCT  
CTTTCTCCCCGACGAAGGGCAGCCCTGCGGACTCCAGGTCTACACACCTCCCGCGGGAGGCCAGGCTCCG  
GGACGCCTGCGGTTCCCTGGTCCCGGCCAACGGCCTGGCCTTCCCTGCCGGCCCGGTGCCTCCCGCCACGGCG  
CTAGCGGTCCGAGCCACGCTCCCTGCGCGTCCGAGCACAGCCGTGCCTCGGTCCGCCACGGCCTCGTCCCTGCAG  
GCGTCCGCCATCCGGCCATGACCGCACGGCGGCCTGGCCAACACTGACGTTTTCTTCTACTCCGTGAGCAACAG  
GAAGAGAGAACAAAAGCCAAGACTTTCAGGTATCTGAAGCGCAGAGGAAATGCTAAAAAGGGTCCGCCACCC  
GGCTCCGCCTGCGGCCGCCATTTTGTACCACTCGAGAAGAAGCGACCAGGGACGGCGGCCATTTTAGAGCGCTCC  
ACTCGGCGGGCGGAGCGGCTCAACTACCTTCACCGAGAACTCAGCAGCTGCCACCGCAGCTGCCTCCTCAGGAT  
CCGGTCTGTCGGGGATAGGGAAGGGAGGGGAAAGGGGAACGGAAAACAAAAAAGGGGGAGGGAAGGGGGAGGAA  
GGAGTCGGGGACGGCCTCAACTCAGCTCAGAGGAGTCTGCTGCTGCAGCCGCCACTCGGTACCCGCTGCCACCTC  
CATAGAGCTCCGACTCACTGCTGGCGCTAAGGCGTGTCTGAAGCCGAACTTATCACTCTTGGGGCAGCCGAACCC  
ACCAGAGTCTCCCGAATGGCTCCTTCGCCGCCAATCAGCGGCCCGGTTGCCGTCTGCCACCAATCCGCGCAGG  
GCAGCGAGGAGGAGCCACAGGGCTGAGCTCGGTTGCGGCGCAGCCCCGCCGAGTGCGCAAAGCCATATTGCGGA  
AGTCTCTGAGGCTGAGCCAGTGGCGTAAGGGGCGCCGAGCGCTGTCGAGATGAGGGTTGCGTGCCTAAAGCCGGA  
GAGCCCTTTTGAGICTGCGTTGGCGTGGCTGCTGCTTCTTGCTCCAGTCCCTTTGTTCACTGAGTCCATATGCCA  
TGCTCCAGTTGTATCATCCCTTTTCCCTCGACCTCGTTTTCTCACCGGGAATATGGGAAGAAAACGCACCCTTA  
CCTCCCCCGAACCCTGTGCGTGGCGAGTGAGCATTGCTTTTCTTGCGCCCCCTTGAGCTGTGGCTGCCCTCGCG  
TGCTGGCCTCTCCCGGGGCTGAGCCCTTCGGGTGAGGCCCTGGAGCCCCGGGCGCAGCGCCGGGACACTACCC  
GGCTCCAGGTCTTCGGCTTCGGCAGCCTTAGGGAACCCAGAAAGTAGTGGGGAGGAGGCGAGCGTGCGCCCGGA  
TGCCAAAGGGGAGCTTCATTGAGCTCCTTATTGGCCACCCCTGCAGAGTGAATGAGAAAGTGATGAAAGGAAG  
GGGTGATTTTCTTGAACCGCACAGAAGAAGCTGCTTTCCCATAGGAATGTCCGGCTGGCGGTACCGAGGAA  
AACACCCTGTGTGTCAGACTTCCGCGGGTGTGTTGGAGGATTTGCAATTGCTAGCTCCTGTTTTTTTTGTTTTT  
GTTTGTTTAAGTGCACGTTAAACATTGTCAGTTGTGATTTTCATTTTATTTAAGGTTACCCATAAGAAATAGGA  
TTAAGCTTTTCAAAGCCGGCAAGTTGAACTATTTATACTTACCAGGTAATGTATTGATGAGTACCTTATTCCATC  
GTTTGCGACATTGTAGCTATACTAAATGGAGTCATACTCCATAAAGTAAACAACAAAAATGTCCCATCTCC  
ATTTTAACATGTAGTACTTTTACAGTGATAGTCAAAGGCAAGAATGTGTGTGTTTTAACATGAATGACTTTTAA  
AGTGTTGAGTAAAGAGGAGGATTTTCAAAGACCCAACTTAACCTTTGATGTGTCAAACAGCTCTTGGTATTAG  
AGCACCTGGTCCTTAATACAATTTTCCGGAAAATTGC

3437/6881  
**FIGURE 3166**

MRVACVKPESPFESALAWLLLLAPVPLFTESICHAPVVSSFPSTSFHREYGKKTHPYLPRTL CVASEHCF SWR  
PLELWLPSRAWPLPGLSPSG

3438/6881  
**FIGURE 3167**

CGCGAGCCGGGACCACGCCGACCCAGCGTGCCAGGCCGAGGAAAGCGCGGGCGGGCAGTCCGAAGACCCACCG  
GGACTGAAAGAGAAGGACGAGGTCACTTCGGACGGGAGGGGCAAGCCAGCCATCCTGGGACCCAGGCGTGACG  
GTTCTCTTTGAGGGTATTCCACCCTGCAAAAAGCATGTATTTCATGGTCAGCTCTCAGCAAGGCCAGTAGCAGAGT  
GGTAAAGGCCCTTGGCCCTCCAAGGCTGGGAAAAGACAATGACAAGTCAAATCCAGACCTATGTTGTATGTTGGTC  
TACTAGGTGACTGTCTCCTGGAAATGTTATGCAGCTCAGCAAGGTGAAGTTTCGAAATCAGTATGACAATGATGT  
CACTGTTTGGAGCCCCAGGGCAGGATTCATCAAATTGAATATGCAATGGAAGCTGTTAAACAAGGTTAGCCAC  
AGTTGGTCTGAAATCAAAAACATCATGCAGTTTGGTTGCATTGAAAAGGGCGCAATCAGAGCTTGACGCTCATCA  
GAAAAAATTCTCCATGTTGACAACCATATTGGTATCTCAATTGCGGGGCTTACTGCTGATGCTAGACTGTTATG  
TAATTTTATGCGTCAGGAGTGTTTGGATTCCAGATTTGTATTTCGATAGACCACTGCCTGTGTCTCGTCTTGTATC  
TCTAATTGGAAGCAAGACCCAGATACCAACACAACGATATGGCCGGAGACCATATGGTGTGGTCTCCTTATTGC  
TGGTTATGATGATATGGGCCCTCACATTTTCCAAACCTGTCCATCTGCTAACTATTTTGACTGCAGAGCCATGTC  
CATTGGAGCCCGTTCCCAATCAGCTCGTACTTACTTGGAGAGACATATGTCTGAATTTATGGAGTGTAATTTAAA  
TGAAGTAGTTAAACATGGTCTGCGTGCCTTAAGAGAGACGCTTCTGCAGAACAGGACCTGACTACAAAGAATGT  
TTCCATTGGAATTGTTGGTAAAGACTTGGAGTTTACAATCTATGATGATGATGATGATGTGTCTCCATTCTGGAAGG  
TCTTGAAGAAAGACCACAGAGAAAGGCACAGCCTGCTCAACCTGCTGATGAACCTGCAGAAAAGGCTGATGAACC  
AATGGAACATTAAGTGATAAGCCAGTCTATATATGTATTATCAAATATGTAAGAATACAGGCACCACATACTGAT  
GACAATAATCTATACTTTGAACCAAAAGTTGCAGAGTGGTGAATGCTATGTTTAGGAATCAG

3439/6881  
**FIGURE 3168**

MFRNQYDNDVTWSPQGRHQIEYAMEAVKQGSATVGLKSKTHAVLVALKRAQSELAHQKILHVDNHIGISIA  
GLTADARLLCNFMRQECLDSRFVFDRLPVSRLVSLIGSKTQIPTQRYGRRPYGVGLLIAGYDDMGPHIFQTCPS  
ANYFDCRAMSIGARSQSARTYLERHMSEFMECNLNLVKGHLRALRETLPAEQDLTKNVSIGIVGKDLEFTIYD  
DDDVSPFLEGLEERPQRKAQPAQPADEPAEKADPEMEH

3440/6881  
**FIGURE 3169**

CCTTTCGTTGCCTGATCGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTAC  
CCTATCGACGCAGCTTCCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAAACTGGCCA  
AGAAGGGCCTTACTCCTTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTGCACAAGTACGTTTTGTGA  
CAGGCAATCTCTACCATTAAATTAAGAAAGCAGTTGCTGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGA  
TGCTAAATCCATCTGATTCTGATAGAGAGCCAGATTACCGTTTG

3441/6881  
**FIGURE 3170**

CGCCGCCATCATGGGTCGTATGCGTGCTCCTGAGAAGGGCCTGTCCCAGTCGGCTTTACCCTATCGACGCAGCTT  
CCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAACTGGCCAAGAAGGGCCTTACTCC  
TTCACAGATCGGTGTAATCGTGAGAGAATCACATGGTGTTGCACAAGTACGTTTTGTGACAGGCAATAAAATTTT  
AAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACCATTAAATTAAGAAAGCAGTTGC  
TGTTCAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCATCTGATTCTGATAGAGAGCCAGATT  
CACCGTTTGGCTCAATATTATAAGACCAAGCGAGTCCTCCCTCCCAGTTGAAAATATGAATCATCTACAGCCTCT  
GCCCTGGTCGCATAAATTTGTCTGTGTACTCAAGCAATAAAATGATTGTTTAACTAAAATAAAACAAAAACAAA  
ACAAAAAA



3442/6881

**FIGURE 3171**

CGCTCTCCTTTTCGTTGCCTGATCGCCGCCATCATGGTCGCATGCATGCTCCCGGGAAGGGCCTGTCCCAGTCGG  
CTTTACCCCTATCGACGCAGCGTCCCCACTTGGTTGAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAAAC  
TGGCCAAGAAGGGCCTTACTCCTTCACAGATCGGTGTAATCCTGAGAGATTCACATGGTGTTCACAAGTACGTT  
TTGTGACAGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACC  
ATTTAATTAAGAAAGCAGTTGCTGTTCGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCGTC  
TGATTCTAATAGAGAGCCGGATTACCGTTTGGCTCGATATTATAAGACCAAGCGAGTCCTCCCTCCCAATTGGA  
AATATGAATCATCTACAGCCTCTGCCCTGGTCGCATTAAATTGTCTGTGTACTCAAGCAATAAAATGATTGTTTA  
ACTA

3443/6881  
**FIGURE 3172**

MGRMHAPGKGLSQSALPYRRSVPTWLKLTSDDVKEQIYKLAKKGLTPSQIGVILRDSHGVAQVRFVTGNKILRIL  
KSKGLAPDLPEDLYHLLIKKAVAVRKHLERNRKDKDAKFRLLILIESRIHRLARYYKTKRVLPNWKYESSTASALV  
A

3444/6881  
**FIGURE 3173**

GGGGAGAGAAGGCCCGGAGGGGCTCTGCGTTCTGTAGTGGCGCTGCTTGGGCCCGTGGCGGATTGTAAGCTGCTG  
GTTTTGCGGCTGGGAAGAGCGGCGAGAGGGTTCGGCATTTCGTCGGGATCCCCGCAAGGATGAGTGCTGCCAG  
AGAGTCTCACCCGCATGGGGTGAAGCGTTCAGCCTCCCCAGACGACGATCTGGGATCTAGCAATTGGGAGGCAGC  
AGACTTGGGTAATGAAGAGAGAAAACAAAAGTTCTTGAGACTTATGGGTGCAGGAAAGAAACATACTGGTGC  
TCTTGTTATAGGAGATCACAAATCAACATCTCACTTCCGAACCGGGGAAGAAGACAAGAAAATTAATGAAGAACT  
GGAGTCTCAATATCAGCAAAGTATGGACAGTAAATTATCAGGAAGATATCGGCGACATTGTGGACTTGGCTTCAG  
TGAGGTAGAAGACCATGATGGAGAAGGTGATGTGGCTGGAGATGATGATGATGACGATGATGATTACCTGATCC  
TGAAAGTCCAGATGATTCTGAAAGCGATTTCAGAGTCAGAGAAAGAAGAATCTGCTGAAGAACTCCAAGCTGCTGA  
GCACCCCTGATGAAGTGGAGGATCCCCAAAACAAAAAGATGCAAAAAGCAATTATAAAATGATGTTTGTAAATC  
CAGTGGTTTCACTACTCCCAAACGCTTAGTCTTTGTATTAAAAGTAAGCCTTATTGTTACAATGCACAGTGGAGGA  
CTGCTTATAGAGCACAGACCTTTGTATTATAATTTTTAAAAAGGCCCTTTAAATAATTACAAAGAGTGTGTGCT  
TTCAAATGCCATGGGTACACTTTTATGGGCATGACTATAACCATTTTGTAAAGAGTAAGAGTTGTATAAAATA  
AGAAATAAATACAGTACTCAACTTCCTTTTCATATTAGCATCATCAACCCTCTAATTCACCTTATGGGGGAAATGC  
TTCTTTTGTGTGTAGCTATTTTATCATTTCTTCATATTTTCTCTTATAAAAATGTATTTGATACTGTGA  
TATGTTACGAAAAGTATTCTTTAATTATTCTTTGTTATAGTAGAGCTGTTTATTATGGATATTTCTGCTGCCAG  
TCACAATCTAAATTAATTTTGGCAAAAGATTGGGTACTTAGTTGCCTGTTACTGAGTTAGCTCTACTCTTTTGGA  
CCAAAGCAACATGAGAGCAAGTACTTTTCACACTTGTTAAGATGGAGTTATAACTGTCATACATTGGAATATTA  
TGATCCCAAGTAGTCTTTTATAATTTGGATTGTATCGTATGTTAGATTTTGTATAAAATTTGGCCAATTTTAC  
AGAAGAAATTCTCTGATCATTTAGTTCTATCTATTTAGAAATATGTAAACTGGATTTTTTTTTTAAGTAATATGT  
GACCAAAGTTAATTTTGTCCCAAAGGTCTAAATAAAGAGCAGTTTCCACAAAAA  
AAAA

3445/6881  
**FIGURE 3174**

MSAARESHPHGVKRSASPDDDLGSSNWEADLGNEERKQKFLRLMGAGKKEHTGRLVIGDHKSTSHFRTGEEDKK  
INEELESQYQQSMDSKLSGRYRRHCGLGFSEVEDHDGEGDVAGDDDDDDDDSPDPESPDDSESDSESEKEESAEE  
LQAAEHPDEVEDPKNKKDAKSNYKMMFVKSSGS

3446/6881  
**FIGURE 3175**

TGCTGCAGCCGCTGCCGCCGATTCCGGATCTCATTGCCACGCGCCCCGACGACCGCCCGACGTGCATTCCCGAT  
TCCTTTTGGTTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTATAATCTTCTAAAGGAAGAACAGAC  
CCCCAGAATAAGATTACAGTTGTTGGGGTTGGTGCTGTTGGCATGGCCTGTGCCATCAGTATCTTAATGAAGGA  
CTTGGCAGATGAAC TTGCTCTTGTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGGATCTCCAACATGG  
CAGCCTTTTCTTAGAACACCAAAGATTGTCTCTGGCAAAGACTATAATGTAAGTGCAAACTCCAAGCTGGTCAT  
TATCACGGCTGGGGCACGTGAGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAGCGTAACGTGAACATATTTAA  
ATTCAATCATTCTAATGTTGTAAAATACAGCCGAAGTGCAGTTGCTTATTGTTTCAAATCCAGTGGATATCTT  
GACCTACGTGGCTTGGGAAGATAAGTGGTTTTCCCAAAAACCGTGTTATTGGAAGTGGTTGCAATCTGGATTGAGC  
CCGATTCCGTTACCTGATGGGGGAAAGGCTGGGAGTTACCCCATTAAGCTGTCATGGGTGGGTCTTGGGGAACA  
TGGAGATTCCAGTGTGCCTGTATGGAGTGAATGAATGTTGCTGGTGTCTCTCTGAAGACTCTGCACCCAGATTT  
AGGGACTGATAAAGATAAGGAACAGTGGAAAGAGGTTTACAAAGCAGGTGGTTGAGAGTGCTTATGAGGTGATCAA  
ACTCAAAGGCTACACATCCTGGGCTATTGGACTCTCTGTAGCAGATTGCGCAGAGAGTATAATGAAGAATCTTAG  
GCGGGTGACCCAGTTTCCACCATGATTAAAGGGTCTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTG  
CATTTTGGGACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAA  
GAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATATCATTTTCACTGT  
CTAGGCTACAACAGGATTCTAGGTGGAGGTTGTGCAITGTTGCTTTTTTATCTGATCTGTGATTAAAGCAGTAAT  
ATTTTAAGATGGACTGGGAAAACATCAACTCCTGAAGTTAGAAATAAGAATGGTTTGTAATAATCCACAGCTATA  
TCCTGATGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGC  
ACCACTGCCAATGCTGTACGTACTGCATTTGCCCCTTGAGCCAGGTGGATGTTTACCGTGTGTTATATAACTTCC  
TGGCTCCTTCACTGAACATGCCTAGTCCAACATTTTTTCCAGTGAGTCACATCCTGGGATCCAGTGATATAATC  
CAATATCATGTCTTGTGCATAATTCTTCAAAGGATCTTATTTGTGAACTATATCAGTAGTGTACATTACCATA  
TAATGTAAAAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTATACCAACTAAAACCCCAATAAAC  
CTTGAACAGTG

3447/6881  
**FIGURE 3176**

MATLKDQLIYNLLKEEQTPQNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLKGEMMDLQHGSIFLRTP  
KIVSGKDYNVTANSKLVIIITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPNCKLLIVSNPVDILTYVAWKI  
SGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVSLKTLHPDLGTDKDKE  
QWKEVHKQVVESAYEVIKLGYSWAIGLSVADLAESIMKNLRRVHPVSTMIKGLYGIKDDVFLSVPCILGQNGI  
SDLVKVTLTSEEEARLKKSADTLWGIQKELQF

3448/6881  
**FIGURE 3177**

ATGCCCAGTGCCATTAGCACCAAGTGTTCCTGTCCATCCTGTGGCCTACCATCTGGTATTACTGCAGCCATGCA  
GGATCCCTGTCAATGATCATGTGTGCTCTTCTCTGGGCCCTATCCCTGCTGCTGAAATTCCTGGAGGGCAATCTT  
GGAAACAATGGCAACAAGACCGAATTGGAACGGGCTTTTGGCTACTATGGACCACTCCAAAGTGTGTGGGTTGCT  
AGAAACCCATCTGGCTTTGCTTTTGTGAAATTTGAAGATCCCCGAGATGCGGCTGATGCAGTTCCATCCCCGAGA  
GCTAAATGGAAGAACTATGTGGCTGCTGTATGATTATCGTAGGAGTAGTCCTCCACCTCGTCGCAGATCTCCA  
AGAAGGAGAAGCTTCTCTCACAGCTGGAGCAGGTCCCTTTCTAGAGATGGGAGAAGAGAGAGGTCGCTGTCTCGG  
GAGAGAAATCACAAGCCGTCCCGATCCTTCTCTAGGTCTCGTAGCCGATCTAGGTCAAATGAAAGGAAATAG

3449/6881  
**FIGURE 3178**

ACCACAAATCAGGCCGGACAGGAGAGGGAGGGGTGGGGGACAGTGGGTGGGCATTGAGACTGCCAGCACTTTGCT  
ATCTACAGCCGGGGCTCCCGAGCGGCAGAAAGTTCCGGCCACTCTCTGCCGCTTGGGTTGGGCGAAGCCAGGACC  
GTGCCCGGCCACCGCCAGGATATCGAGCTACTGTGCCACCGCTCCGCGACGTAGACCTGACGGCCCCCGACGGC  
TCTCTGTGCTCCTTTGCCACAACGGACGACTTCTATGACGACCCGTGTTTCGACTCCCCGGACCTGCGCTTCTTC  
GAAGACCTGGACCCGCGCCTGATGCACGTGGGCGCGCTCCTGAAACCCGAAGAGCACTCGCACTTCCCCGCGGCG  
GTGACCCCGCCCCGGGCGCACGTGAGGACGAGCATGTGCGCGCGCCAGCGGGCACCACCAGGCGGGCGCTGC  
CTACTGTGGGCTGCAAGGCGTGCAAGCGCAAGACCACCAACGCCGACCGCCGCAAGGCCGCCACCATGCGCGAG  
CGGCGCGCCTGAGCAAAGTAAATGAGGCCTTTGAGACACTCAAGCGCTGCACGTGAGCAATCCAAACCAGCGG  
TTGCCAAGGTGGAGATCCTGCGCAACGCCATCCGCTATATCGAGGGCCTGCAGGCTCTGCTGCGCGACCAGGAC  
GCCGCGCCCCCTGGCGCCGAGCCGCTTCTATGCGCCGGGCCCCGCTGCCCCGGGCGCGGCGGCGAGCACTAC  
AGCGGCGACTCCGACGCGTCCAGCCCGCGCTCCAAGTGTCCGACGGCATGATGGACTACAGCGGCCCCCGAGC  
GGCGCCGGCGGGCGGAAGTGTACGAAGGCGCCTACTACAACGAGGCGCCAGCGAACCAGGCCCGGGAAGAGT  
GCGGCGGTGTCGAGCCTAGACTGCCTGTCCAGCATCGTGGAGCGCATCTCCACCGAGAGCCCTGCGGCGCCCGCC  
CTCCTGCTGGCGGACGTGCCTTCTGAGTCGCTCCGCGAGGCAAGAGGCTGCCGCCCCAGCGAGGGAGAGAGC  
AGCGGCGACCCACCCAGTCACCGGACGCCGCCCCGAGTGCCCTGCGGGTGCGAACCCCAACCCGATATACCAG  
GTGCTCTGAGGGGATGGTGGCCGCCACCCGCCCCGAGGGATGGTGCCCTAGGGTCCCTCGCGCCAAAAGATTG  
AACTTAAATGCCCCCTCCCAACAGCGCTTAAAAGCGACCTCTCTTGAGGTAGGAGAGGCGGGAGAAGTGAAGT  
TTCCGCCCCCGCCCCACAGGGCAAGGACACAGCGCGTTTTCACGCAGCACCTTCTCGGAGACCCATTGCG  
ATGGCCGCTCCGTGTTCTCGGTGGGCCAGAGCTGAACCTTGAGGGGCTAGGTTGAGCTTTCTCGCGCCCTCCCC  
CATGGGGGTGAGACCTCGCAGACCTAAGCCCTGCCCGGGATGCACCGTTATTTGGGGGGCGTGAGACCCAG  
TGCACTCCGGTCCCAAATGTAGCAGGTGTAACCGTAACCCACCCCAACCCGTTTCCCGGTTGAGGACCACTTTT  
TGTAATACTTTTGTAACTATTCTGTAAATAAGAGTTGCTTTGCCAGAGCAGGAGCCCTGGGGCTGTATTTAT  
CTCTGAGGCATGGTGTGTGGTGTACAGGGAATTTGTACGTTTATACCGCAGGCGGGCGAGCCGCGGGCGCTCGC  
TCAGGTGATCAAAATAAAGGCGCTAATTTATA



3450/6881  
**FIGURE 3179**

MELLSPLRDVLTAPDGSLSFATDDFYDDPCFDSFDLRFFEDLDPRLMHVGALLKPEEHSHPAAVHPAPGA  
REDEHVRAPSGHHQAGRCLLWACKACKRKTNNADRRKAATMRERRRLSKVNEAFETLKRCTSSNPQNRLPKVEIL  
RNAIRYIEGLQALLRDQDAAPPAAAAFYAPGPLPPGRGGEHYSGDSDASSPRSNCSGMMDYSGPPSGARRRNC  
YEGAYYNEAPSEPRPGKSAAVSSLDCLSSIVERISTESPAAPALLLADVPSESPPRRQEAAAPSEGESSGDPTQS  
PDAAPQCPAGANPNPIYQVL

3451/6881  
FIGURE 3180

AGTTGCTTCAGCATCCTGGTGTGCTGTGCGCGTGGGTCCTGTGCGGTCACTTAGCCAAGATGCTGAGGAAACCC  
AGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACATTCGCCCTTTCAGGCAGAAATTGCCCAAGTTGATGT  
CATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCAT  
TGGACAAAATCTGGTATGAAAGCTTGACAGATCCCAAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTTA  
TACCAAAACAAACAAGATCAAACTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAATA  
ACCTTGGTACTATCGCCAAGTCTGGGACCAAGCGTTTCATGGAAGCTTTGCAGGCTGGTGCAGATATCTCTATGA  
TTGGCCAGTTCGGTGTAGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCACAAACATAATG  
ATGATGAGCAGTACGCCCTGGGAGTCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACGTATGG  
GTCGTGGAACAAAGGTTATCTACACCTGAAAGAAGACCAAACTGAGTACTTGGAGGAACAAAGAATAAAGGAGA  
TTGTGAAGAAACATTCTCAGCTTATTGGATATCCATTACTCTTTTTGTGGAGAAGGAATGTGATAAAGAAGTCA  
GCCACGATGAGACTGAAGAAAAGGAAGACAAAGAAGAAAGAAAAGAAAGAGAGTCCAAAGACAAAC  
CTGAAATTGAAGATGTTGGTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAAGAAGAAGAAGACTAAGG  
AAAAGTACATCGACCAAGAAGAACTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACTAATG  
AGGAGTACGGAGAATTCTGCAAGAACCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTCAGTTG  
AAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCATGACGTGCTCTTTTGACCTGTTTGAACAGAAAGA  
AAAAGAACAACATCAAATTGTATGTACGCAGAGATTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATC  
TGAACCTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATTTCCCGTGAGATGTTGCAACAAAGTA  
AAATTTTGAAAGTTATCAGGAAAAATTTGGTCAAAAAATGCTTAGAACTCTTTACAGAAGTGGCGGAAGATAAAG  
AGAACTGCAAGAAATTCATGAGCAGTTCTCTAAAAACATAAAGCTTGGAAATACAAGAAGACTCTCAAAATCGGA  
AGAACTTTTCAAGAGCTGTTAAGGTACTACACGTCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCA  
CCAGAAATGAAGGAAAAACAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAATCAGCCT  
TTGTGGAACGTCTTGGGAAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATGATGAGTACTGTGTCCAAC  
AGCTGAAGGAATTTGAGGGGAAGACTTTAGTGCCAGTCACCAAGAAGGCCTGGAACCTCCAGAGGATGAAGAAA  
AGAAAAAGAAATAGGAAGAGAAAAACAAATGTTTGAGAACCTCTGCAAAACCATGAAAGACATATTGGAGAAAA  
AGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACGTCTCCATGCTGTATTGTCAAGCACATATGGCTGGAC  
AGAAAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTATATGGCAGCCAAGAA  
ACACCTGGAGATAAATCCTGATGATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAATGACAA  
GTCTGTGAAGGATCTGCTCATCTTGCTTTACGAACTGCACTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCA  
GACACATGCTAACAGGACCTACAGGATGATCAAACTTGGTCTGGGTATTGATGAAGATGATCCTGCTGCTGATGA  
TACCAGTGCTGCTGTAACCTGAAGAAATGCCGCCCTCGAAGGAGATGACGACACATCATGCATGGAAGAAGTAGA  
CTAACCTCTGGCTAAGGGATGACTTAACCTGTTCAATACTCTACAATTCCTCCGATAATATATATTCAAGGATGTT  
TTTCTTTATTTTGTGTAATATTAAAAAGTCTGTACGGCATGACAACAACCTACTTTAAGGGGAAGATAAGATTCT  
GTCTACTAAGTGATGCTGTGATACCTTAGGCACTAAAGCAGAGCTAGTAATGCTTTTGTGTTTCACGTCGGTTT  
ATTTTCACAGATTGGGGTAACGTGCGTTGTAAAGATGTATGTAACATGATGTTAACTTTGTGGTCTAAAGTGTTTA  
GCTGTCAAGCCGGATTCCCTAAGTAGACCAATCTTGTTATCGAAGTGTTCCCTGAGCTATACCTTGATGTTTAGAA  
AAGTATTTGTTACATCTTGTTAGGATCTACTTTTGAACCTTTTCATCCCTATAGTTGACAATCTGCATGTACTA  
GTCCTCTAGAAATAGGTTAACTGAAGCAACTTGATGGAAGGATCTCTCCACAGGGCTTGTTTTCCAAAGAAAAG  
TATTGTTTGGAGGAGCAAAGTTATAAGCCTACCTAAGCATATCATAAAGCTGTTTTAAAAATAACTCAGACCCGGT  
CTTGTGGATGGAATGTAGTGCTCGAGTCACATCTCTTATAGTTGTAACAAATACAGATGAGT

3452/6881  
**FIGURE 3181**

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIWYESLTDPSKLD SGKE  
LHINLIPNKQDQTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVSFY SAYLVAEKVTV  
ITKHNDDEQYAWESSAGGSFTVRTDTGERMGRGTVILHLKEDQTEYLEEQRIKEIVKKHSQLIGYPITLFVEKE  
CDKEVSDDETEEKEDKEEEEKEEEKESKDKPEIEDVGSDEEEKKDGDKKKKKTKEYIDQEELNKTKPIWTRNP  
DDITNEEYGEFYKNLTNDWEDHLAVKHFSVEGQLEFRALLFVP

3453/6881  
**FIGURE 3182**

GGTGTGCTGTGCCGTGGGTCCTGTGCGGTCACTTAGCCAAGATGCCTGAGGAAACCCAGACCCAAGACCAACCG  
ATGGAGGAGGAGGAGGTTGAGACATTCGCCTTTCAGGCAGAAATTGCCAGTTGATGTCATTGATCATCAATACT  
TTCTACTCGAACAAAGAGATCTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCATTGGACCTGCATATTAAC  
CTTATACCAAACAAACAAGATCAAACCTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATC  
AATAACCTTGGTACTATCGCCAAGTCTGGGACCAAAGCGTTCATGGAAGCTTTCAGGCTGGTGCAGATATCTCT  
ATGATTGGCCAGTTCGGTGTAGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCAAACAT  
AATGATGATGAGATACCAAGTCTGCTGTAAGTGAAGAAATGCCGCCCTCGAAGGAGATGACGACACATCATGCA  
TGGAAGAAGTAGACTAACCTCTGGCTAAGGGATGACTTAACTGTTC

3454/6881  
**FIGURE 3183**

ACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTTCAGTTGAAGGACAGTTGGAATTCAGAGCCCTTCTA  
TTTGTCCCATGACGTGCTCCTTTTGACCTGTTTGAAAACAGAAAGAAAAAGAACAACATCAAATTGTATGTACGC  
AGAGATTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATCTGAACTTCATTAGAGGGGTGGTAGACTCG  
GAGGATCTCCCTCTAAACATTTCCCGTGAGATGTTGCAACAAAGTAAAATTTTGAAAGTTATCAGGAAAAATTTG  
GTCAAAAATGCTTAGAACTCTTTACAGAACTGGCGGAAGATAAAGAGAACTGCAAGAAATTCATGAGCAGTTC  
TCTAAAAACATAAAGCTTGGAATACAAGAAGACTCTCAAAATCGGAAGAAGCTTTCAGAGCTGTTAAGGTACTAC  
ACGTCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGAAGGAAAAACAGAAACATATC  
TATTATATCACAGGTGAGACCAAGGACCAGGTAGCTGAGGGGAAGACTTTAGTGCCAGTCACCAAAGAAGGCCTG  
GAACTTCCAGAGGATGAAGAAAAGAAAAAGAAATAGGAAGAGAAAAACAATGTTTGAGAACCTCTGCAAAATCA  
TGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTATATGGCAGCCAAGAAACACCTGGAGATAAAATCCTG  
ATGATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAATGACAAGTCTGTGAAGGATCTGCTCA  
TCTTGCTTTACGAACTGCACTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCAGACACATGCTAACAGGACCT  
ACAGGATGATC

3455/6881  
**FIGURE 3184**

GGAATGTGATAAAGAAGTCAGCGACGATGAGACTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAGAAGA  
GAAAGAGTCCAAAGACAAACCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAA  
GAAGAAGAAGAAGACTAAGGAAAAGTACATCGACCAAGAAGAACTCAACAAAACAAAGCCCATCTGGACCAGAAA  
TCCCGACGATATTACTAATGAGGAGTACGGAGAATTCTGCAAGAACTTGACCAATGACTGGGAAGATCACTTGGC  
AGTGAAGCATGAAAAATTTGGTCAAAAAATGCTTAGAACTCTTTACAGAACTGGCGGAAGATAAAGAGAACTGCA  
AGAAATTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGGAATACAAGAAGACTCTCAAAATCGGAAGAAGCTTT  
CAGAGCTGTTAAGGTACTACACGTCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGA  
AGGAAAAACAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCAGCCTTTGTGGAAC  
GTCTTGGGAAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATTGATGAGTACTGTGTCCACAGCTGAAGG  
AATTTGAGGGGAAGACTTTAGTGCCAGTCACCAAAGAAGGCCTGGAACTTCCAGAGGATGAAGAAAAGAAAAGA  
AATAGGAAGAGAAAAACAATGTTTGAGAACCTCTGCAAAACCATGAAAGACATATTGGAGAAAAACAAGCACA  
TATGGCTGGACAGAAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACTCAACAATGGGTATATG  
GCAGCCAAGAAACACCTGGAGATAAATCCTGATGATTCCATTAT

3456/6881  
**FIGURE 3185**

GGTCGGCGTGGTCTTGCGAGTGGAGTGTCCGCTGTGCCCGGGCCTGCACCATGAGCGTCCCGGCCTTCATCGACA  
TCAGTGAAGAAGATCAGGCTGCTGAGCTTCGTGCTTATCTGAAATCTAAAGGAGCTGAGATTTGAGAAGAGAACT  
CGGAAGGTGGACTTCATGTTGATTTAGCTCAAATTATTGAAGCCTGTGATGTGTGTCTGAAGGAGGATGATAAAG  
ATGTTGAAAGTGTGATGAACAGTGTGGTATCCCTACTCTTGATCCTGGAACCAGACAAGCAAGAAGCTTTGATTG  
AAAGCCTATGTGAAAAGCTGGTCAAATTTGCGGAAGGTGAACGCCCGTCTCTGAGACTGCAGTTGTTAAGCAACC  
TTTTCCACGGGATGGATAAGAATACTCCTGTAAGATACACAGTGTATTGCAGCCTTATTAAAGTGGCAGCATCTT  
GTGGGGCCATCCAGTACATCCCAACTGAGCTGGATCAAGTTAGAAAATGGATTTCTGACTGGAATCTCACCACCTG  
AAAAAAGCACACCCCTTTTAAGACTACTTTATGAGGCCTTGTGGATTGTAAGAAGAGTGATGCTGCTTCAAAG  
TCATGGTGGAATTGCTCGGAAGTTACACAGAGGACAATGCTTCCAGGCTCGAGTTGATGCCACAGGTGTATTG  
TACGAGCATTGAAAGATCCAAATGCATTCTTTTTTGACCACCTTCTTACTTTAAAACCAAGTCAAGTTTTTGGAAG  
GCGAGCTTATTCATGATCTTTTAACCATTTTTGTGAGTGCTAAATTGGCATCATATGTCAAGTTTTATCAGAATA  
ATAAAGACTTCATTGATTCATTGGCCTGTTACATGAACAGAATATGGCAAAAATGAGACTACTTACTTTTATGG  
GAATGGCAGTAGAAAATAAGGAAATTTCTTTTGACACAATGCAGCAAGAACTTCAGATTGGAGCTGATGATGTTG  
AAGCATTGTATTGACGCCGTAAGAACTAAAATGGTCTACTGCAAAATTGATCAGACCCAGAGAAAAGTAGTTG  
TCAGTCATAGCACACATCGGACATTTGAAAAACAGCAGTGGCAACAACCTGTATGACACACTTAATGCCTGGAAAC  
AAAATCTGAACAAAGTAAAAACAGCCTTTTGAGTCTTTCTGATACCTGAGTTTTTATGCTTATAATTTTTGTTC  
TTTGAAAAAAAGCCCTAAATCATAGTAAACATTATAAACTAAAAA

3457/6881  
**FIGURE 3186**

MSVPAFIDISEEDQAAELRAYLKSKGAEISEENSEGGLHVDLAQIIEACDVCLKEDDKDVESVMNSVVSLLLILE  
PDKQEALIESLCEKLVKFREGERPSLRLQLLSNLFHGMDKNTPVRYTVYCSLIKVAASCGAIQYIPTELDQVRKW  
ISDWNLTTEKKHTLLRLLYEALVDCKKSDAASKVMVELLGSYTEDNASQARVDAHRCIVRALKDPNAFLFDHLLT  
LKPVKFLEGELIHDLLTIFVSAKLASYVKFYQNNKDFIDSLGLLHEQNMAMRLLTFMGMAVENKEISFDTMQQE  
LQIGADDVEAFVIDAVRTKMVYCKIDQTQRKVVSHTHRTFGKQWQQLYDTLNAWKQNLNKVNSLLSLSDT



3458/6881  
**FIGURE 3187**

AAAACTGCAGCCAACCTCCGAGGCAGCCTCATTGCCAGCGGACCCAGCCTCTGCCAGGTTTCGGTCCGCCATC  
CTCGTCCCGTCTCCGCCGGCCCTGCCCCGCGCCAGGGATCCTCCAGCTCCTTTGCGCCGCGCCCTCCGTTCG  
CTCCGGACACCATGGACAAGTTTGGTGGCACGCAGCCTGGGGACTCTGCCTCGTGCCGCTGAGCCTGGCGCAGA  
TCGATTTGAATATAACCTGCCGCTTTGCAGGTGTATTCCACGTGGAGAAAAATGGTCGCTACAGCATCTCTCGGA  
CGGAGGCCGCTGACCTCTGCAAGGCTTTCAATAGCACCTTGCCCAATGGCCAGATGGAGAAAGCTCTGAGCA  
TCGGATTTGAGACCTGCAGGTATGGGTTTATAGAAGGGCACGTGGTGATTCCCCGGATCCACCCCACTCCATCT  
GTGCAGCAAAACAACACAGGGGTGTACATCCTCACATCCAACACCTCCAGTATGACACATATTGCTTCAATGCTT  
CAGCTCCACCTGAAGAAGATTGTACATCAGTCACAGACCTGCCCAATGCCTTTGATGGACCAATTACCATACTA  
TTGTTAACCGTGATGGCACCCGCTATGTCCAGAAAGGAGAATACAGAACGAATCCTGAAGACATCTACCCAGCA  
ACCCTACTGATGATGACGTGAGCAGCGGCTCCTCCAGTGAAAGGAGCAGCACTTCAGGAGGTTACATCTTTTACA  
CCTTTTCTACTGTACACCCCATCCAGACGAAGACAGTCCCTGGATCACCGACAGCACAGACAGAATCCCTGCTA  
CCACTTTGATGAGCACTAGTGCTACAGCAACTGAGACAGCAACCAAGAGGCAAGAAACCTGGGATTGGTTTTCAT  
GGTTGTTTTTACCATCAGAGTCAAAGAATCATCTTCACACAACAACAAATGGCTGGTACGTCTTCAAATACCA  
TCTCAGCAGGCTGGGAGCCAAATGAAGAAAATGAAGATGAAGAGACAGACACCTCAGTTTTTCTGGATCAGGCA  
TTGATGATGATGAAGATTTTATCTCCAGCACCATTTCACACACACCGGGCTTTTGACCACACAAAACAGAACC  
AGGACTGGACCCAGTGGAACCAAGCCATTCAATCCGGAAGTGCTACTTCAGACAACCACAAGGATGACTGATG  
TAGACAGAAATGGCACCCTGCTTATGAAGGAACTGGAACCCAGAACACACCCCTCCCTCATTACCATGAGC  
ATCATGAGGAAGAAGAGACCCACATTCTACAAGCACAATCCAGGCAACTCCTAGTAGTACAACGGAAGAAACAG  
CTACCCAGAAGGAACAGTGGTTTGGCAACAGATGGCATGAGGGATATCGCCAAACACCCAAAGAAGACTCCCAT  
CGACAACAGGGACAGCTGCAGCCTCAGCTCATACCAGCCATCCAATGCAAGGAAGGACAACACCAAGCCAGAGG  
ACAGTTCTTGACTGATTTCTTCAACCCAATCTCACACCCATGGGACGAGGTCATCAAGCAGGAAGAAGGATGG  
ATATGGACTCCAGTCATAGTATAACGCTTCAGCCTACTGCAAATCCAAACACAGGTTTGGTGGAAGATTGGACA  
GGACAGGACCTCTTTCAATGACAACGCAGCAGAGTAATTCTCAGAGCTTCTCTACATCAGATGAAGGCTTGAAG  
AAGATAAAGACCATCCAACAACCTTCTACTCTGACATCAAGCAATAGGAATGATGTCACAGGTGGAAGAAGAGACC  
CAAATCATTCTGAAGGCTCAACTACTTTTACTGGAAGGTTATACCTCTCATTACCCACACACGAAGGAAAGCAGGA  
CCTTCATCCCACTGACCTCAGCTAAGACTGGGTCTTTGGAGTTACTGCAGTTACTGTTGGAGATTCCAACCTCTA  
ATGTCAATCGTTCCTTATCAGGAGACCAAGACACATCCACCCCACTGGGGGGTCCCATACCACTCATGGATCTG  
AATCAGATGGACACTCACATGGGAGTCAAGAAGGTGGAGCAAACACAACCTCTGGTCTATAAGGACACCCCAA  
TTCCAGAATGGCTGATCATCTTGGCATCCCTCTTGGCTTGGCTTTGATTCTTGCAAGTTTGCATTGCAGTCAACA  
GTCCAAGAAGGTGTGGGCAGAAAGAAAAGCTAGTGATCAACAGTGGCAATGGAGCTGTGGAGGACAGAAAGCCAA  
GTGGACTCAACGGAGAGGCCAGCAAGTCTCAGGAAATGGTGCATTTGGTGAACAAGGAGTCGTCAAGAACTCCAG  
ACCAGTTTATGACAGCTGATGAGACAAGGAACCTGCAGAATGTGGACATGAAGATTGGGGTGTAAACACCTACACC  
ATTATCTTGGAAAGAAACAACCGTTGGAAACATAACCATTACAGGGAGCTGGGACACTTAACAGATGCAATGTGC  
TACTGATTGTTTCATTGCGAATCTTTTTTAGCATAAAAATTTCTACTCTTTTTGTTTTTGTGTTTTGTTCTTTA  
AAGTCAGGTCCAATTTGTAAAAACAGCATTGCTTTCTGAAATTAGGGCCCAATTAATAATCAGCAAGAATTTGAT  
CGTTCCAGTTCCCACTTGGAGGCCTTTTCATCCCTCGGGTGTGCTATGGATGGCTTCTAACAAAACTACACATAT  
GTATTCCTGATCGCCAACCTTTCCCCCACCAGCTAAGGACATTTCCAGGGTTAATAGGGCCTGGTCCCTGGGAG  
GAAATTTGAATGGGTCCATTTTGCCCTTCATAGCCTAATCCCTGGGCATTGCTTTCCACTGAGGTTGGGGGTG  
GGGTGTACTAGTTACACATCTTCAACAGACCCCTCTAGAAATTTTTCAGATGCTTCTGGGAGACACCCAAAGGG  
TGAAGCTATTTATCTGTAGTAACTATTTATCTGTGTTTTTGAATATTAACCCTGGATCAGTCTTTGATCAG  
TATAATTTTTTAAAGTTACTTTGTTCAGAGGCACAAAAGGGTTTAACTGATTACATAATAAATATCTGTACTTCTT  
CGATCTTC

3459/6881  
**FIGURE 3188**

ACTTGAGGGAGTAGGGGGCCGGGTTTGGGCCCTCAGTTGCTAAGGGCTACCCGAGTGGGAAGCGGTTCAAGAGAT  
GGGGTGAAGGGTGGTTTACCGGTTCTTCAAGTCCTCAGCCTTCTGGCCCGCGGAAGTTAAGCAACCAAGAGGCGG  
GCCTAAGACCGGAAGCAGGAAGGAGGGCGCAGGAAGCAGGGCGCCGACGCTGTCTGACGGTCTTCTGTGGGTCT  
TGTGGGTGCCGAGGGCAGGATGGAGAAGCTGCGGCTCTGGGCCCTCCGCTACCAGGAGTACGTGACTCGTCAACC  
GGCCGCCACGGCCAGCTGGAGACAGCAGTGC GGCGCTTACGTTACCTGCTGGCAGGTGCGATTGCGGATTTCGA  
CGAGCTGTGAGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCT  
TCGGA AAAAGTTGCTGTGCTGCTGTCCAGCAGAAGCTGCTGACATGGCTGAGCGTGTGAGAGTGCCTGGAGGT  
GTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGGTGAAGTGGGCCGCTGGCTTGTTCATCGCCCTCATCCAGCTGGC  
CAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCTATCGTTCCACT  
GGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGCAGTCTTACGTGGGGAA  
GCGGTCAAACCGGGTGGTGCGAACCTCCAGAACACGCCGCTCCCTGCACTCCAGGCACTGGGGAGCTCCCCAGCA  
GCGGGAGGGACGGCAGCAGCAGCATCACGAGGAGCTGAGTGCAGCCCCACCCCTGGGGCTGCAGGAGACCAT  
CGCAGAGTTTTTGTACATTGCCCGCCGCTGCTGCACTTGTCTAGCCTGGGCCTGTGGGGTCAAGAGTGTGGAA  
ACCTTGGCTCTTGGCTGGTGTGTGGACGTGACCAGCTGAGCCTCCTGAGTGACAGAAAGGGCTGACCCGGAG  
GGAGCGGCGGGAGCTGCGGCGCCGACCATCTGCTGCTCTACTACCTGCTGCGCTCTCCTTTCTACGACCGCTT  
CTCCGAGGCCAGGATCCTCTTCTGCTCCAGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCACAACGTC  
CCAGCGTGCGGCTCTCCGTGCCTACCGGCCAGGCCCCACACAGCCCTGGTCGCCACCAGCGTTCTTCCAGG  
ACACCTTGA CTGCGCTCTCCTGTGACGATGCCACTGCAGCCCGCACCTTGTCACTGCTGGGCCAAGAAGCCTTC  
ACTAGGAGTGGGATCCAGGCTCCTCTCCACAGAAAGCGGTGACTTCACCTCATGGAGCCCGGAAGCTGCTTGC  
CTCGGCAGCCATAGGAGCGAACACTGCTGCTCTCTCGCTGGCCCTGGTGAGGACAGGAAGCCTGAACCCGGGTG  
ATGGCTGAACGCTGCCCAGCGTGTCTTCTGGCTGGGGCCCTCCGCTGTGCCCTTCTCCGAGGGCCCTGTGGCTC  
TGGCAGCCCCAGGCCATGGCGTTGCCAGCTCCCTGTGACAGAGCCTGGTGAACAGTGAGCCTGGCTCCCACGCA  
AGTGGCACTTTAAGCCCTGCATCCTCGGTTGAGAGTAAAAGGCTTTTCTCCCTTAAAAAAAAAAAAAAAAAAAA  
A

3460/6881

**FIGURE 3189**

MEKLRLGLRYQEYVTRHPAATAQLETAVRGFSYLLAGRFADSHSELVYSASNLLVLLNDGIIRKELRKKLPV  
SLSQQKLLTWLSVLECEVFMEMGAAKVWGEVGRWLVIQLAKAVLRMLLLWFKAGLQTSPPIVPLDRETQA  
QPPDGDHSPGNHEQSYVGKRSNRVVRTLQNTPSLHSRHWGAPQQREGRQQQHHEELSATPTPLGLQETIAEFLYI  
ARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRRTILLLYLLRSFFYDRFSEARIL  
FLLQLLADHVPGVGLVTTSQRAASPCLPARPHTQPWSPPAFLPGHP

3461/6881  
**FIGURE 3190**

ACTTGAGGGAGTAGGGGGCCGGGTTTGGGCCCTCAGTTGCTAAGGGCTACCCGAGTGGGAAGCGGTTCAAGAGAT  
GGGGTGAAGGGTGGTTCACCGGTTCTTCAAGTCCTCAGCCTTCTGGCCCGCGGAAGTTAAGCAACCAAGAGGCGG  
GCCTAAGACCGGAAGCAGGAAGGAGGGCGCAGGAAGCAGGGCGCCGAGCCTGTCGTACGGTCCCTTCTGTGGGT  
TGTCGGTGCCGAGGGCAGGATGGAGAAGCTGCGGCTCCTGGGCCTCCGCTACCAGGAGTACGTGACTCGTACCC  
GGCCGCCACGGCCAGCTGGAGACAGCAGTGCAGGGCTTCACTTACCTGCTGGCAGGTGATTGCGCGATTGCA  
CGAGCTGTCAGAGCTGGTGTACTCTGCCTCTAACCTGCTTGTGCTGCTCAATGACGGGATCCTACGGAAGGAGCT  
TCGGA AAAAGTTGCCTGTGTCGCTGTCCAGCAGAAGCTGCTGACATGGCTGAGCGTGTGGAGTGGTGGAGGT  
GTTTCATGGAGATGGGAGCTGCCAAGGTGTGGGGTGAAGTGGGCCGCTGGCTTGTATCGCCCTCATCCAGCTGGC  
CAAGGCTGTACTGCGGATGCTCCTGCTGCTCTGGTTCAAGGCTGGCCTCCAGACTTCACCCCTATCGTTCCACT  
GGACAGAGAGACCCAGGCACAGCCCCGGATGGTGACCACAGCCCTGGCAACCATGAGCAGTCCTACGTGGGGAA  
GCGGTCAAACCGGGTGGTGCGAACCTCCAGAACACGCCGCTCCCTGCACTCCAGGCACTGGGGAGCTCCCCAGCA  
GCGGGAGGGACGGCAGCAGCAGCATCACGAGGAGCTGAGTGCAGCCCCACCCCTGGGGCTGCAGGAGACCAT  
CGCAGAGTTTTTGTACATTGCCCGCCGCTGCTGCACTTGTCTAGCCTGGGCCTGTGGGGTCAGAGGTCTGTGGAA  
ACCTTGGCTCTTGGCTGGTGTGTGGACGTGACCAGCCTGAGCCTCCTGAGTGACAGAAAGGGCTGACCCGGAG  
GGAGCGGCGGGAGCTGCGGCGCCGACCATCTGCTGCTCTACTACCTGCTGCGCTCTCCTTTCTACGACCGCTT  
CTCCGAGGCCAGGATCCTCTTCTGCTCCAGTTGCTGGCCGACCACGTCCCTGGCGTTGGCCTGGTCACAAGGCC  
GCTCATGGATTACTTGCCACCTGGCAGAAAATCTACTTCTACAGTTGGGGCTGACAGACCTCCCGGAAGGAGGG  
TGTGGGGAGGGGTGGGGCAGGGAGCCCTCTTCCCTAATAAACTGACTCCGGCAGCGTCAAAAAAAAAAAAAA  
AAAAAAAAAA

3462/6881  
**FIGURE 3191**

MEKLRLGLRYQEYVTRHPAATAQLETAVRGFSYLLAGRFADSHSELVYSASNLLVLLNDGILRKELRKKLPV  
SLSQQKLLTWLSVLECVEVFMEMGAAKVWGEVGRWLVIQALAKAVLRMLLLWFKAGLQTSPPIVPLDRETQA  
QPPDGDHSPGNHEQSYVGKRSNRVVRTLQNTPSLHSRHWGAPQOREGRQQHHEELSATPTPLGLQETIAEFLYI  
ARPLLHLLSLGLWGQRSWKPWLLAGVVDVTSLSLLSDRKGLTRRERRELRRRTILLYYLLRSFFYDRFSEARIL  
FLLQLLADHVPGVGLVTRPLMDYLPWQKIYFYSWG

3463/6881  
**FIGURE 3192**

AAGAAAAATTCAAAGTGGAGACAAGAACCATTGCTGTTGACTTTGCATCAGAAGATATTTATGATAAAATTAAAA  
CAGGCTTGGCTGGTCTTGAAATCGGCATCTTAGTGAAACAACGTGGGAATGTCGTATGAGTATCCTGAATACTTTT  
TGGATGTTCTGACTTGGACAATGTGATCAAGAAAATGATAAATATTAATATTCTTTCTGTTTGTAAGATGACAC  
AATTGGTACTGCCTGGCATGGTGGAAAGATCCAAAGGGGCTATTCTGAACATTTTCATCTGGCAGTGGCATGCTCC  
CTGTCCCCTCTTGACCATCTATTCTGCAACCAAGACTTTTGTAGATTCTTCTCTCAGTGCCCTCCATGAGGAGT  
ATAGGAGCAAGGGGCTCTTTGTGTCAGAGTGTCTGCCATACTTCGTAGCTACAAAACCTGGCTAAAATCCGGAAGC  
CAACTTTGGATAAGCCCTCTCCGGAGACGTTTGTGAAGTCTGCAATTAAAACAGTCGGCCTGCAATCCCGAACCA  
ATGGATACCTGATCCATGCTCTTATGGGCTCGATAATCTCAAACCTGCCTTCTTGGATTATTTGAAAATAGTCA  
TGAATATGAACAAGTCTACACGGGCTCACTATCTGAAGAAAACCAAGAAGAACTAAGCATTGATAACTGCATTGT  
AACTTGGCCAGATGTCCAGCATATGCACGTTCACTGCAAAGCACCCCTACTGGTTTTGAAAATCTGACCTTGTCA  
TTTCAATAGTTATTAACATGACTAAATATTAICTTAATTAAGAGGAAAAATAGAAGTTGCTTTTAGGGGTTTTCTGA  
CATATATTCTGGATACTATCCGAGGTAATTTTGAAGTTTAATATAAATGCTCATATCAAATGAATATAGAATAA  
TATTGTGCGGGAACACCTAATAGAAAGGAATACTATTATAGCAAATCACAGAATGATAGACTCAAGCATAAAACTT  
GGCAGTTTTATCTGCTTCAAAATGCCATTGATCATTATTCTGTATTTTCTCTGAAACTGATTATAAAAAACCAAT  
GTCCAGCTACTCTTTTGTGTTTTGACACTTGAAGAAATGGAGATCGATTGATTTGTTTATAAGCAGACACACTGC  
AATTTACAAAGATCTCTTTACGGTTTTATAAAATTATCTTCCAGTTTGTACATTTATATGGAATTGTTCTTTATC  
AAGGGTAGCTAATGACATGAAAATAATTGTGAAATATGGAATTATTTCTGACACATGAAGCCCACTAAACTATGC  
TTTCTTATAATGCATATTTCTTCTCAGTTTAAATGTATGTAAATATCGAAGCTATATGGTATGATTTATAAAGAT  
AAATGGGCCAAAGTGTACATTGAGACTGGCAGCCATCTATGGTACCACTGAAACCCTGACCCAGAAAAGTGGCTT  
GCTTGGACACCCAGCTGCCTTTGTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCTATA  
AAAGTAATGACTTCATAGAAATGGCATTATAATTTTTAAGTTGATACTCTACAGGTAGCTATTGATATAATTAGT  
TTTAATAAAACATGCTGCAACCATGGTATACAACAAAATACATTTCTTTGGTGATTGAAATTAAGGCCGTATTT  
ACAATGACTTAATATAAGACTGACTTTTATCTGCTTCATAACTTGTATGGAGAACTCACCAAGAAAGAATTCAA  
TACTGTGAAATATGCAGCAAGAAGATTGGTCTTTACCTAGGCTGTGTTTCCTAAGCTCTGAGTTTTCAGCACCAG  
TAGATTTGTATTAAGAAAAAATGGGGCCTTAGCTTCTGGCTTTTAATTTTGCCAGCTAAGGACATAAAAC  
AAAAATAAACAAACAAAAACAAATAGCCATCTGCTATCAGCATCATTATGTAAAAGAAAATATATTTAGCCCCCT  
AAAATTAGGAAGAATGTAATCTCAGAATAAAGGTTGTCATTAAAGTTGAATAAATATATAGCTTTATGAAAAACA  
C

CCCCCCCCGTTTGCCAGCGCTCAGGCAGGAGCTCTGGACTGGGCGCGCCGCCCTGGAGTGAGGGAAGCCCA  
TGGAAGGGGGTCCCGGGAGCCGGTGCATGGACGCCGCTTTGGAACCTTCCCGGCCGACAGGCTGTTCCCGG  
ATCCAGCTTCTGGACTTGGGGGATCTGAACGAGTCGGACTTCTCAACAATGCGCACTTCTCTGAGCACTGGA  
CCACTTTACGGAGAACATGGAGGACTTCTCCAATGACCTGTTTACGAGCTTCTTTGATGACCTGTGCTGGATGA  
GAAGAGCCCTCTATTGGACATGGAACGGACTCCCTACGCCAGGCATCCAGGCGGAGCACAGCTACTCCCTGAG  
CGGCGACTCAGCGCCCCAGAGCCCCCTTGTGCCCATCAAGATGGAGGACACCACCAAGATGCAGAGCATGGAG  
ATGGGCGCTGGGACACAAACTGTGCTCCATCATGGTGAAGCAGGAGCAGAGCCCGGAGCTGCCCGTGGACCCTCT  
GGCTGCCCCCTCGGGCCATGGCTGCCGCGCGGCCATGGCCACCAGCCCCGCTGCTGGGCCCTAGCCCCCTTGTCC  
AGGCTGCCCATCCCCACCAGGCCCGGGGAGAGATGACTCAGCTGCCAGTGATCAAAGCAGAGCCTCTGGAGGTG  
AACCAGTTCTCAAAGTGACACCGGAGGACCTGGTGCAGATGCCTCCGACGCCCCCAGCAGCCATGGCAGTGAC  
AGCGACGGCTCCAGAGTCCCGCTCTCTGCCCCCTCCAGCCCTGTGAGGCCATGGCGCGCTCTCTCCACGGCC  
ATCTCCACCTCCCCACTCCTCACTGCCCCCTCACAATTACAGGGGACATCAGGGCCACTGCTCTGACAGAGGAG  
GAGAAGCGGACCTGATTGCTGAGGGCTACCCCATCCCCACAAAACCTCCCCCTACCAAAGCCGAGGAGAAGGCC  
TTGAAGAGAGTCCGGAGGAAAATCAAGAAACAAGATCTCAGCCCAGGAGAGCCGTCGTAAGAAGAAGGAGTATGTG  
GAGTGTCTAGAAAAGAAGGTGGAGACATTTACATCTGAGAAACAATGAACGTGGAAGAAGGTGGAGACCCTGGAG  
AATGCCAACAGGACCCTGCTCCAGCAGCTGCAGAAACTCCAGACTCTGGTACCAACAAGATCTCCAGACCTTAC  
AAGATGGCCGCCACCCAGACTGGGACCTGCCTCATGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
XX  
XXXXXXXXXXXXXTGCCCTCCCGAAGCCTCCTATTCTACGATGACGGGGCAGGCTTATGGGAAGATGGCCGCAGC  
ACCCTGCTGCCCATGGAGCCCCCAGATGGCTGGGAAATCAACCCCGGGGGGCCGGCAGAGCAGCGGCCCCGGGAC  
CACCTGCAGCATGATCACCTGGACAGCACCCACGAGACCACCAAGTACCTGAGTGAGGCCTGGCCTAAAGACGGT  
GGAAACGGCACCAGCCCCGACTTCTCCCACTCCAAGGAGTGGTTCCACGACAGGGATCTGGGCCCCAACACCAC  
ATCAAACCTCTCCTAGGCCATGCCAAGACCCAGGACATAGGACGGACCCCTGGTACCCAGAAGAGGAGTTCTTGCT  
CACTAACCCGGATCCGCCTCGTGCCCTGCCTCCTGGAGCTTCCATTCCAGGAGAAAAGGCTCCACTTCCAGC  
CCTTCTTGCCCCTGACATTTGGACTCTTCCCTTGGGCCGACCACTCTGTCTCTATTCTCTTCCCAACACATC  
CATCCGTCCTTCTCAGACAAACCACTCACTGGGTACCCACCTCCTCTCTCATATGCCCAACACGACCACTGCCT  
CCCTGCCCCCACACCTGCACCCAAACAGACACATCAACGCACCCCACTCACAGACACCCCTTACCCACCCCCAC  
TGTCAGAGACCAAGAACAGAAATTGTTGTAAATAATGAACCTTATTTTTTATTATTGCCAAATCCCCTAAGATA  
TTGTATTTTACAAATCTCCCTCTTCCCTTCGCCCCCTCCCTTGTTTTATATTTTATGAAGTTAGTGCGGGCTTGC  
TGCTCCCTGGGCCAGGAAAGAGGGACTCCCTGACCCTCACTGGCACCCCCCTGCTGCTGCCCAAGCCGCTGGGC  
CTTTTTAATTGCCAAACTGCTCTCTTTCATCAGCTCAGCACATGCTTTAAGAAAGCAAACTAAAAAAAAAAAAA  
AAAGAGGCAGCATC

3465/6881  
**FIGURE 3194**

TTTTCAATTTAAATATTCTTCTTTTGCTTCTCTTAAGCAGAAGCTGGTCTCTGCTTTTCACCACCTGGAATCCAG  
TCCCAACAGCTGCTCTTCTAACCCTTCCGGCCTAATTGTGGAATAATCGTTTAAATCATTAAAGAGACAGAATCTG  
ATGTTGGTAGCTCTGACAGACCTCTCTAGCTTCTTTCATAAGCCAGGGCTCTTGCCAGCTCCTGCACACAGCCT  
GCCAGTTCTCCATCTTAGCACAGTTCCACTTTTCCATAGTAGCCAGAAACATCTGGCTGAAGACAAACAGTTACA  
AAGCAGAAGCCAAGGTGATGGGATCTGTTGTCACATATGGGGCTGGCAGCTCAAGGAATGTGGTTCTCTGCTGAG  
GAGATGTGGTAATCCAGTCAGCCCTGGCTGTCCTGCCAAGGSTCTCAAGGCAGCTAGCCAGCAGCTGCATGCTT  
GGTGACTGGAGCTACTACTGCCAGGCTGCCTGGTGAACCTTTTTTGATTCTCAGTAGGTACCATCTGCCACC  
AAGCACTAAGAAAGGGAGCTGAAGTACCTAGAAAGTCCCATTTGGGAAGTGTTCTGTCAACCAAGAGACAGGA  
TCAAGGCATCTCAACAAGGTTTAGGTCAACCAAGTGTCACCCAGTCTGACTTTAAACCCCATGCTACAGAAAG  
GTTTCTGGTTTTCCAGGTCTTGGTTGCCCTTACGTCCAAAGGCACCAGATCACTCAGCAAATGTCCCTGAATTC  
AGTGATTGGTGAAGGGAAGACACCAGCTTTTTTGATAGCTGTGCTGTATCACCCTTAAGGCAAGAAGTGAAT  
TTTTGTCTGAGAACAGGGAGCAAGGGTTAATGGGACAGTACAGCATCTCCCTCTTTGCACAGGTAAGTATAGGT  
GGGTGTCTCCATCTCTAATGTCAAGCTCTGACCATAAAGGAATGCTTAGTGGGTAATGGGCCTGTCTAGAGCT  
TTGCTACCCAGAATTCCTTCTGTCTGGTGTACCTCTTGAATCACTGTGGTAATGTTTCAGAGAGGCAAATG  
TGTTGGGCCAACAGACATTCCAGGAGAACATCCTCCAGAGCATTGATTTATTTTAAGATGGCACTAAGTGACAT  
CTCTCCCCAAGAGATGATCTCTGACACAATCCCATATGAAAACCTCTCTGAAAATGAATGCTAATTGCTATTAG  
CCTTGATGCATTACTCTAAGCAGTCTTCAGACTTCTGGATCAGTGCTTCTCAAACCTGTGGTTCTTGGACAAC  
TACAGTAGAATACATGGGTCTTATTAATAACAGATCCATTTTCAGACCTAAAATCAGAATAAGAATGGGAGTC  
AGAGGGACCCAGGATTAGTATTTTAAACAAGATTTCTTCATTTTAGGTGTCTGCCCTCAGCCTCCTCAGCAAG  
GCAGAGTCAGTCTCAGGTCTACTTGCCATTGTGGTTTTGTGCATGGTGCTTTGATTCTTTGCTAATTATGTTGCA  
GGCACAGTGGTGTGTTGTCTTCTGTTTCTACCAAACCTCAGCTTTTTTGCTGTCTGCGCCTCACCTCCCATCTTT  
TCTAGGCTGTGTGCTCTTCCAGGTTCTCCCTTGAATAGCTGTATGTGCTGGAGTCTTTTCTTTATGTTGAATC  
ATTTAATTTTTTGCTCTTATTTCTAGGATCTAGGGTCTTTTGATCTTTCCCTTCTCTGTTTATCGTGCTAGTCC  
TCCCAGTTTTAATGATGGGTAAGTCAGGAAAGTAAGACTGGGCACATATTTTCTCTCTCCCTTCCCACTGTCCAT  
TTGCGATTCTCCAGATTGGATATGCTACTCTCTATGACTCAGAATCTTATTTTCTGTCTGATTCCCTTCTGCTT  
GAGCCAGAGAGGGCTTTTTGTAAATTTTTGTTTTGTTTTTAGGTTAAGCTTTTAGAGACTGCTGAGCTGAAGTTT  
TGCTGAATTCTCAAAACACTAAACCTGCTGTGTTCCCTCTCGGCTTTCATTTTCTAATTGGAACAGGCACAGTA  
TTGTAACAGAGAAGTCAATTAATTTCTAAAATAGTGGCAACTTGCACAGTATAATAACTTTGGTTGTAACCAA  
GTGAAAGCATAATAACAAAAATACAAAATTACTGATGAAACCAGAAAGAGTCATATACCACATTCTTCCTTTAGT  
TTGTATCTCAGTAAGTGCTGTGTTACTTAGGAATAGGGGCAGAAGCCTGCAACTGGGCAGGGAGGTTTCAGGGACA  
TGAGGACGAAGCTAGGGCATTTTGAGCTAGAAAGCAAGAATAAGGATTAGTGCTTTCAACACTGGAATTAACATG  
GACCACCCCCCACCCTCCCAATAAGTGGGGATTGTAGGCACATAAGTGGTTTAGTAAGAAGTGAAAAGGTTTTT  
CTGTGGAGTTCGAGTTCCATCGGCTCCCATCCGGGCTATCCTGCCACCTTAGCGGCTGCTCCTCCCAGGATGCG  
GGCAGGGGGCCTCTCTCCCACTCCCCACACACCGATTCTGAGTAGCGATAGGGGCTGGAGGCTATTTTATGGG  
GTAGGGGGCCGCTGGTAGGCGAAGATTGTCCGAGGGAGAGGGGGAGGATGAAGCCAGTGCGTGGCGGAGACCTGC  
CAGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGAACTCCTTTTTAAGGAGGGAGTCATGGTGGCCAAG  
AAGGATGTCCACATGCCAAGCACCAGGCTGGCAGACAAGAATGTGCCCAACCTTCATGTCATGAAGGCCATG  
CAGTCTCTCAAGTCCCAGGGCTACGTGAAGGAACAGTTTGCTGGAGACATTCTACTGGTACCTTACCAATGAG  
GGTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCAGAGATTGTGCTGCCATCCTACGCCGTAGCCGTCCA  
GAGACTGGCAGGCCTCGGCCTAAAGGCTGAGGGGTGAGCGACCTGCGAGACTCACAAGAGGGGAAGCTGACAGA  
GATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAA  
TTCCAGTTTAGAGGCGGATTGGTGTGAGCGTGGTCAGCCACCTCAGTAAAATTGGAGAGGATTCTTTTGCAAT  
GAATAAATCTATAGCCAAAAAACCTT



3466/6881  
**FIGURE 3195**

AGATGTTGATGCCTAAGAAGAACCGGATTGCCATTTATGAACTCCTTTTAAAGGAGGGAGTCATGGTGGCCAAGA  
AGGATGTCCACATGCCTAAGCACCCGGAGCTGGCAGACAAGAATGTGCCAACCTTCATGTCATGAAGGCCATGC  
AGTCTCTCAAGTCCCGAGGCTACGTGAAGGAACAGTTTGCCTGGAGACATTTCTACTGGTACCTTACCAATGAGG  
GTATCCAGTATCTCCGTGATTACCTTCATCTGCCCCCAGAGATTGTGCCTGCCATCCTACGCCGTAGCCGTCCAG  
AGACTGGCAGGCCTCGGCCTAAAGGTCTGGAGGGTGAGCGACCTGCGAGACTCACAAGAGGGGAAGCTGACAGAG  
ATACCTACAGACGGAGTGCTGTGCCACCTGGTGCCGACAAGAAAGCCGAGGCTGGGGCTGGGTGAGCAACCGAAT  
TCCAGTTTAGAGGCGGATTTGGTCGTGGACGTGGTCAGCCACCTCAGTAAAATTGGAGAGGATTCTTTTGCAATG  
AATAAACTTATAGCCAAAAAACCTTAAAAAA

3467/6881  
**FIGURE 3196**

GCGAAGCAGCGCGGGCAGCGAGATGCAGCACCGAGGCTTCCTCCTCCTCACCTCCTCGCCCTGCTGGCGCTCAC  
CTCCGCGGTTCGCCAAAAGAAAGATAAGGTGAAGAAGGGCGGCCCGGGGAGCGAGTGCCTGAGTGGGCTGGGG  
GCCCTGCACCCCCAGCAGCAAGGATTGCGGCGTGGGTTTCCGCGAGGGCACCTGCGGGGCCAGACCCAGCGCAT  
CCGGTGCAGGGTGCCCTGCAACTGGAAGAAGGAGTTTGGAGCCGACTGCAAGTACAAGTTTAAAAATGGGGTGA  
AGTGTGATGGGGGCACAGGCACCAAAGTCCGCCAAGGCACCCTGAAGAAGGCGCGCTACAATGCTCAGTGCCAGG  
AGACCATCCGGGTCCCCCAGCCCTGCACCCCCAAGACCAAAGCAAAGGCCAAGCAAAGGGAAGGGAAAGG  
ACTAGACGCCAAGCCTGGATGCCAAGGAGCCCCTGGTGTACATGGGGCCTGGCCCACGCCCTCCCTCTCCCAGG  
CCCGAGATGTGACCCACCAAGTGCCTTCTGTCTGCTCGTTAGCTTTAATCAATCATGCCCTGCCTTGTCCCTCTCA  
CTCCCCAGCCCCACCCCTAAGTGCCCAAAGTGGGGAGGGACAAGGGATTCTGGGAAGCTTGAGCCTCCCCCAAAG  
CAATGTGAGTCCCAGAGCCCGCTTTTGTCTTCCCCACAATTCCATTACTAAGAAACACATCAATAAACTGACT  
TTTCCCCCAATAAAAGCTCTTCTTTTAAATAT

3468/6881  
FIGURE 3197

GCGGCGCGGAGCGGGCGTGCTGAGCCCCGGCCCGCGCCCGGCATGGGCGTCTCCCGCGGGCCCTCCGCCGGCCG  
GGGCTAGGGCCGGATGGAGCCGCGGGACGGTAGCCCCGAGGCCCGGAGCAGCGACTCCGAGTCGGCTTCCGCCCTC  
GTCCAGCGGCTCCGAGCGCGACGCCGGTCCCGAGCCGGACAAGGCGCCGCGGCGACTCAACAAGCGGCGCTTCCC  
GGGGCTGCGGCTCTTCGGGCACAGGAAAGCCATACCAAGTCGGGCCTCCAGCACCTGGCCCCCCTCCGCCCCAC  
CCCTGGGGCCCCGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCAGCGACATATGG  
GGAGCACATCTGGTTCGAGACCAACGTGTCCGGGGACTTCTGCTACGTGGGGAGCAGTACTGTGTAGCCAGGAT  
GCTGAAGTCAGTGTCTCGAAGAAAGTGCGCAGCCGTGCAAGATTGTGGTGCACACGCCCTGCATCGAGCAGCTGGA  
GAAGATAAATTTCCGCTGTAAGCCGTCTTCCGTGAATCAGGCTCCAGGAATGTCCGCGAGCCAACCTTTGTACG  
GCACCACTGGGTACACAGACGACGCCAGGACGGCAAGTGTCCGCACTGTGGGAAGGGATTCCAGCAGAAGTTTAC  
CTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGCAGCAGGCATACCACAGCAAGGTGTCTGCTT  
CATGCTGCAGCAGATCGAGGAGCCGTGCTCGCTGGGGGTCCACGCAGCCGTGGTTCATCCCGCCCACTGGATCCT  
CCGCGCCCCGAGGCCCCAGAATACTCTGAAAGCAAGCAAGAAGAAGAGGGCATCCTTCAAGAGGAAGTCCAG  
CAAGAAAGGGCCTGAGGAGGGCCGCTGGAGACCCTTCATCATCAGGCCACCCCTCCCGCTCATGAAGCCCT  
GCTGGTGTGTGTGAACCCCAAGAGTGGGGGCAACCAGGGTGCAAGATCATCCAGTCTTCTCTGCTGATCTCAA  
TCCCCGACAAGTCTTCGACCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAACCT  
GCGGATCTTGGCGTGCGGGGGCGACGGCACGGTGGGCTGGATCCTCTCCACCCTGGACCAGCTACGCCTGAAGCC  
GCCACCCCTGTGTCATCTGCCCCCTGGGTACTGGCAACGACTTGGCCCGAACCTCAACTGGGGTGGGGGCTA  
CACAGATGAGCCTGTGTCCAAGATCCTCTCCACGTGGAGGAGGGGAACGTGGTACAGCTGGACCCTGGGACCT  
CCACGCTGAGCCCAACCCGAGGCAGGGCCTGAGGACCGAGATGAAGGCGCCACCGACCGGTTGCCCTGGATGT  
CTTCAACAATACTTACGCTGGGCTTTGACGCCACGTACCCCTGGAGTTCCACGAGTCTCGAGAGGCCAACC  
AGAGAAATTCACAGCCGCTTTCGGAATAAGATGTTCTACGCCGGGACAGCTTTCTGACTTCTGATGGGCAG  
CTCCAAGGACCTGGCCAAGCACATCCGAGTGGTGTGTGATGGAATGGACTTGACTCCCAAGATCCAGGACCTGAA  
ACCCAGTGTGTGTTTCTGAACATCCCCAGGTACTGTGCGGGCACCATGCCCTGGGGCCACCTGGGGAGCA  
CCACGACTTTGAGCCCCAGCGGCATGACGACGGCTACCTCGAGGTCATTGGCTTACCATGACGTCGTTGGCCGC  
GCTGCAGGTGGGCGGACACGGCGAGCGGCTGACGCAGTGTGCGGAGGTGGTGTCTACCACATCCAAGGCCATCCC  
GGTGCAGGTGGATGGCGAGCCCTGCAAGCTTGACGCTCACGCATCCGCATCGCCCTGCGCAACCAGGCCACCAT  
GGTGCAGAAGGCCAAGCGGCGGAGCGCCGCCCCCTGCACAGCGACCAGCAGCCGGTGCCAGAGCAGTTGCGCAT  
CCAGGTGAGTCGCGTCAGCATGCACGACTATGAGGCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCTCTGT  
GCCGCTGGGCACTGTGGTGGTCCAGGAGACAGTGACCTAGAGCTCTGCCGTGCCACATTGAGAGACTCCAGCA  
GGAGCCCGATGGTGTGGAGCCAAGTCCCCGACATGCCAGAACTGTCCCCAAGTGGTGTCTCTGGACGCCAC  
CACTGCCAGCCGCTTCTACAGGATCGACCGAGCCAGGAGCACCTCAACTATGTGACTGAGATCGCACAGGATGA  
GATTTATATCTGGACCCTGAGCTGCTGGGGGCATCGGCCCGGCTGACCTCCCAACCCCACTTCCCTCTCCC  
CACCTCACCTGCTCACCCACGCCCCGGTCACTGCAAGGGGATGCTGCACCCCTCAAGGTGAAGAGCTGATTGA  
GGCTGCCAAGAGGAACGACTTCTGTAAGCTCCAGGAGCTGCACCGAGCTGGGGGCGACCTCATGCACCGAGACGA  
GCAGAGTCGCACGCTCCTGCACCACGCAGTCAGCACTGGCAGCAAGGATGTGGTCCGCTACCTGCTGGACCACGC  
CCCCCAGAGATCCTTGATGCGGTGGAGGAAAACGGGGAGACCTGTTGCACCAAGCAGCGGCCCTGGGCCAGCG  
CACCATCTGCCACTACATCGTGGAGGCCGGGGCTCGCTCATGAAGACAGACCAGCAGGGCGACACTCCCCGGCA  
GCGGGCTGAGAAGGCTCAGGACACCGAGCTGGCCGCTACCTGGAGAACCGGCAGCACTACCAGATGATCCAGCG  
GGAGGACCAGGAGACGGCTGTGTAGCGGGCCGCCACGGGCAGCAGGAGGGACAATGCGGCCAGGGGACGACGCG  
CTCCTTGCCCACTCACTGCCACATTCCAGTGGGACGGCCACGGGGGACCTAGGCCCAAGGAAAGAGCCCCA  
TGCCGCCCCCTAAGGAGCCGCCAGACCTAGGGCTGGACTCAGGAGCTGGGGGGGCTCACCTGTTCCCTGAGG  
ACCCGCGCGGACCCGGAGGCTCACAGGGAACAAGACACGGCTGGGTGGATATGCCCTTGCCGGGTTCTGGGGC  
AGGGCGCTCCCTGGCCGACGAGATGCCCTCCAGGAGTGGAGGGGCTGGAGAGGGGAGGCCCTTCGGGAAGAGG  
CTCCTGGGCCCCCTGGTCTTCGGCCGGGTCCCCAGCCCCGCTCCTGCCCCACCCACCTCCTCCGGGCTTCT  
CCCGGAAACTCAGCGCCTGCTGCATTGCTGCTGCTTGGTGGCACCCTCGGCGGACCTCCCGGCTCC  
CCTGTCAATTCATCGCGGACTGTGCGGCTGGGGGTGGGGGCGGACTCTCACGGTGACATGTTTACAGCTGGG  
TGTGACTCAGTAAAGTGGATTTTTTTCTTTAAAAAAA

3469/6881  
**FIGURE 3198**

MEPRDGSPEARSSDSESASASSSSGSEPDAGPEPDKAPRRLNKRFPGLRFLGHRKAITKSGLQHLAPPPPTPGAP  
CSESERQIRSTVDWSESATYGEHIWFETNVSGDFCYVGEQYCVARMLKSVSRRKCAACKIVVHTPCIEQLEKINF  
RCKPSFRESGSRNVREPTFVRHHWVHRRRQDGKCRHCGKGFQQKFTFHSKEIVAISCSWCKQAYHSKVSCFMLQQ  
IEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKRASFKRKSSKKGP EEGRWPFIIIRPTSPIMKPLLVFV  
NPKSGGNQGAIIQSFLWYLNPRQVFDLSQGGPKALEMYRKVHNLRLACGGDGTGVWILSTLDQLRLKPPPV  
AILPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEGNVVQLDRWDLHAEPNPEAGPEDRDEGATDRLPLDVFNYY  
FSLGFDHVTLEFHESREANPEKFNSRFRNKMFYAGTAFSDFLMGSSKDLAKHIRVVCDGMDLTPKIQDLKPQCV  
VFLNIPRYCAGTMPWGHGPEHHDFEQRHDDGYLEVIGFTMTSLAALQVGGHGERLTQCREVVLTTSKAIPVQVD  
GEPCKLAASRIALRNQATMVQKAKRRSAAPLHSDQQPVPEQLRIQVSRVSMHDYEALHYDKEQLKEASVPLGT  
VVVPGDSLELCRAHIERLQQEPDGAGAKSPTCQKLSPKWCFLDATTASRFYRIDRAQEHLNYYTEIAQDEIYIL  
DPELLGASARPDLPPTSPPTSPCSPTPRSIQGDAAPPQGEELIEAAKRND FCKLQELHRAGGDLMRDEQSRT  
LLHHAVSTGSKDVVRYLLDHAPPEILDAVEENGETCLHQAALGQRTICHYIVEAGASLMKTDQQGDTPRQRAEK  
AQDTELAAYLENRQHYQMIQREDQETAV

3470/6881  
**FIGURE 3199**

CATCTGAGTAACATGGCGGCGGCGGCGGTAGCCAGGCTGTGGTGGCGCGGGATCITGGGGGCCTCGGCGCTGACC  
AGGGGGACTGGGCGACCCCTCCGTTCTGTTGCTGCCGGTGAGGCGGGAGAGCGCCGGGGCCGACACGCGCCCCACT  
GTCAGACCACGGAATGATGTGGCCCACAAGCAGCTCTCAGCTTTTGGAGAGTATGTGGCTGAAATCTTGCCCAAG  
TATGTCCAACAAGTTCAGGTGTCCTGCTTCAATGAGTTAGAGGTCTGTATCCATCCTGATGGCGTCATCCCAGTG  
CTGACTTTCCTCAGGGATCACACCAATGCACAGTTCAAATCTCTGGTTGACTTGACAGCAGTGGACGTCCCAACT  
CGGCAAAACCGTTTTTGAGATTGTCTACAACCTGTTGTCTCTGCGCTTCAACTCACGGATCCGTGTGAAGACCTAC  
ACAGATGAGCTGACGCCCAATTGAGTCTGCTGTCTCTGTGTTCAAGGCAGCCAACTGGTATGAAAGGGAGATCTGG  
GACATGTTTGGAGTCTTCTTTGCTAACCACCCTGATCTAAGAAGGATCCTGACAGATTATGGCTTCGAGGGACAT  
CCTTTCGGAAAGACTTTCCTCTATCTGGCTATGTTGAGTTACGTTATGATGATGAAGTGAAGCGGGTGGTGGCA  
GAGCCGGTGGAGTTGGCCCAAGAGTTCCGCAAATTTGACCTGAACAGCCCCCTGGGAGGCTTTCCTCAGTCTATCGC  
CAACCCCGGAGAGTCTCAAGCTTGAAGCCGAGACAAGAAGCCTGATGCCAAGTAGCTCCAGGGAACGCATGTG  
GATCCTAGACAGCGCCTTATCTATGATTGAGTGTCCGTGTAATAAATTCCTACTTAGACTTAAAAAAAAAAAA

3471/6881  
**FIGURE 3200**

MAAAVARLWWRGILGASALTRGTGRPSVLLLPVRRESAGADTRPTVRPRNDVAHKQLSAFGEYVAEILPKYVQQ  
VQVSCFNELEVCIHPDGVIPVLTFRLDHTNAQFKSLVDLTAVDVPTRQNRFEIVYNLLSLRFNSRIRVKTYTDEL  
TPIESAVSVFKAANWYEREIWDMGVFFANHPDLRRILTDYGFEHGFPRKDFPLSGYVELRYDDEVKRVVAEPVE  
LAQEFRKFDLNSPWEAFPVYRQPPESLKLEAGDKKPDAK

3472/6881  
**FIGURE 3201**

GATTGCTGCTCCGCAGCACGGCCGGAGCTGGTCGGGTCAAGAGTCGGGATTTGTGGGGAGAGGTTTTCCACTGG  
TCAAGAGAAGGCTTTAAGAAAGACGGTATTAATCTCCCGTTGCGGCTCCCGCCTGGTCCCATCTTCTGCCCCGCTC  
CTCCAGGAAATGAATCTGCTGCCGAATATTGAGAGTCCAGTGACTCGGCAGGAGAAGATGGCGACCGTGTGGGAT  
GAGGCCGAGCAAGATGGAATTGGGGAGGAGGTGCTCAAGATGTCCACGGAGGAGATCATCCAGCGCACACGGCTG  
CTGGACAGTGAGATCAAGATCATGAAGAGTGAAGTGTGAGAGTCACCCATGAGCTCCAAGCCATGAAGGACAAG  
ATAAAAGAGAACAGTGAGAAAATCAAAGTGAACAAGACCCTGCCGTACCTTGTCTCCAACGTCATCGAGCTCCTG  
GATGTTGATCCTAATGACCAAGAGGAGGATGGTGCCAATATTGACCTGGACTCCCAGAGGAAGGGCAAGTGTGCT  
GTGATCAAAACCTCTACACGACAGACGTACTTCCTTCTGTGATTGGGTTGGTGGATGCTGAAAAGCTAAAGCCA  
GGAGACCTGGTGGGTGTGAACAAAGACTCCTATCTGATCCTGGAGACGCTGCCCACAGAGTATGACTCGCGGGTG  
AAGGCCATGGAGGTAGACGAGAGGCCCCACGGAGCAATACAGTGACATTGGGGGTTTGGACAAGCAGATCCAGGAG  
CTGGTGGAGGCCATTGTCTTGCCAATGAACCACAAGGAGAAGTTTGAGAACTTGGGGATCCAACCTCCAAAAGGG  
GTGCTGATGTATGGGCCCCCAGGGACGGGGAAGACCCTCCTGGCCCCGGGCTGTGCCGCACAGACTAAGGCCACC  
TTCCTAAAGCTGGCTGGCCCCCAGCTGGTGCAGATGTTTATTGGAGATGGTGCCAAGCTAGTCCGGGATGCCITT  
GCCCTGGCCAAGGAGAAAGCGCCCTCTATCATCTTCATTGATGAGTTGGATGCCATCGGCACCAAGCGCTTTGAC  
AGTGAGAAGGCTGGGGACCGGGAGGTGCAGAGGACAATGCTGGAGCTTCTGAACCAGCTGGATGGCTTCCAGCCC  
AACACCCAAGTTAAGGTAATTGCAGCCACAAACAGGGTGGACATCCTGGACCCCGCCCTCCTCCGCTCGGGCCGC  
CTTGACCGCAAGATAGAGTTCCCGATGCCCAATGAGGAGGCCCGGGCCAGAATCATGCAGATCCACTCCCGAAAG  
ATGAATGTCAGTCTTGACGTGAACCTACGAGGAGCTGGCCCGCTGCACAGATGACTTCAATGGGGCCAGTGCAAG  
GCTGTGTGTGTGGAGGCGGGCATGATCGCACTGCGCAGGGGTGCCACGGAGCTCACCACGAGGACTACATGGAA  
GGCATCCTGGAGGTGCAGGCCAAGAAGAAAGCCAACCTACAATACTACGCCTAGGGCACACAGGCCAGCCCCAGT  
CTCACGGCTGAAGTGCGCAATAAAAGATGGTTTAGGGTCCCTGCC

3473/6881

## FIGURE 3202

GGGGCCGCCCCGATCGCCGCCGCCGCCGCCGCACGTACGTGGCATGCCTGGATGTCCCTGCCCTGGCTGTGGCAT  
GGCGGGCCCAAGGCTCCTCTTCTCACTGCCCTTGCCCTGGAGCTCTTGAAAGGGCTGGGGGTTCCCAGCCGGC  
CCTCCGGAGCCGGGGGACTGCGACGGCCTGTGCGCTGACAACAAGGAAAGCGAGTCCTGGGGGGCTCTGCTGAG  
CGGAGAGCGGCTGGACACCTGGATCTGCTCCCTCCTGGGTTCCCTCATGGTGGGGCTCAGTGGGGTCTTCCCGTT  
GCTTGTCATTCCCTAGAGATGGGGACCATGCTGCGCTCAGAAGCTGGGGCCTGGCGCCTGAAGCAGCTGCTCAG  
CTTCGCCCTGGGGGACTCTTGGGCAATGTGTTTCTGCATCTGCTGCCGAAGCCTGGGCCTACACGTGCAGCGC  
CAGCCCTGGTGGTGAGGGGAGAGCCTGCAGCAGCAGCAACAGCTGGGGCTGTGGGTCAATTGCTGGCATCCTGAC  
CTTCCTGGCGTTGGAGAAGATGTTCTGGACAGCAAGGAGGAGGGGACCAGCCAGGCCCCCAACAAAGACCCAC  
TGCTGCTGCCGCCGCGCTCAATGGAGGCCACTGTCTGGCCCAGCCGGCTGCAGAGCCCGGCCCTCGGTGCCGTGGT  
CCGGAGCATCAAAGTCAGCGGCTACCTCAACCTGCTGGCCAACACCATCGATAACTTCACCCACGGGGCTGGCTGT  
GGCTGCCAGCTTCCCTGTGAGCAAGAAGATCGGGCTCCTGACAACCATGGCCATCCTCTGCATGAGATCCCCCA  
TGAGGTGGGGGACTTTGCCATCCTGCTCCGGGCGGGCTTTGACCGATGGAGCGCAGCCAAGCTGCAACTCTCAAC  
AGCGCTGGGGGGGCTACTGGGCGCTGGCTTCGCCATCTGTACCCAGTCCCCCAAGGGAGTAGTTGGGTGTTCTCC  
CGCTGCAGAGGAGACGGCAGCCTGGGTCTGCCCTTCACCTCTGGCGGCTTTCTCTACATCGCCTTGGTGAACGT  
GCTCCCTGACCTCTTGAAGAAGAGGACCCGTTGGCGCTCCCTGCAGCAGCTGCTTCTGCTCTGTGCGGGCATCGT  
GGTAATGGTGCTGTTCTCGCTCTTCTGTGGATTTAACTTTCCCTGATGCCGACGCCCCCTGCCCCCTGCAGCAATAAG  
ATGCTCGGATTCACTCTGTGACCGCATATGTGAGAGGCAGAGAGGGCGAGTGGCTGCGAGAGAGAATGAGCCTCC  
CGCCAGACAGGAGGGAGGTGCGTGTGGATGTATGTGGTGTGCACATGTGGCCAGAGGTGTGTGCGCGAGACCGAC  
ACTGTGATCCCTGTGCTGGGTCCGGGGCCAGTGTAGCGCCTGTCCCCAGCCATGCTGTGGTTACCTCTCCTTGC  
CGCCCTGTACCTTCACCTCCCGGAGTAAGCAGCGAGGAAGAGCAGCACTGGTCCCAAGCAGAGGCCTTGCCCTG  
CTGGGACCCCGGGAGTGAGAGCAGCCCAAGGATCCAGGGTGCAGGGAACCTCAGAGCTGCCACCTCCCCTGCC  
CCCTCAGCACACACAGTCCCCAGGCGGCTAGGGGCCAAGGCTGGGGCGGCTTTGGTCCCTTTTCTGGCCCT  
TCCTTCCCCACTTCTAAGCCAAAGAAAGGAGAGGCAGGTGCTCCTGTACCCAGCCCCACTCAGCACTGACAGTC  
CCCAGCTCCTAGTAGTGAGCTGGGAGGCGCTTCTAAGACCCTTTCTCAGGGCTGCCCTGGGAGCTCATTCTCTG  
GCCAACACGCCCTGGCAGCACCAGCAGCTCTTGCCACCTCCAGCTGCCAAACAGCAGCCTGCCGGGCAGGGAGCA  
GCCCCAGGCCAGAGAGGCTCCCGGTCCAGCTCAGGGATGCTCCTGCCAGCACAGGGGCCAGGGACTCCTGGAGC  
AGGCACATAGTGAGCCCGGGCAGCCCTGCCAGCTCAGGCCCTTTCTTCCCCATTGAGGTTGGGGTAGGTGGG  
GGCGGTGAGGGCTCCACGTTGTGAGCGCTCAGGAATGTGCTCCGGCAGAGTGCTGAAGCCATAATCCCCAACCAT  
TTCCCTTGGCTGACGCCAGGTACTCAGCTGGCCACTCCACAGCCAGGCCTGGCCCTGCCCTTACCGTGGATG  
TTTTCAGAAGTGGCCATCGAGAGGTCTGGATGGTTTTATAGCAACTTTGCTGTGATTCCGTTTGTATCTGTAAAT  
ATTTGTTCTATAGATAAGATACAAATAAATATTATCCACAT



3474/6881  
**FIGURE 3203**

MPGCPCPGCGMAGPRLLFLTALALELLERAGGSQPALRSRGTTACRLDNKESESWGALLSGERLDTWICSLGSLGS  
LMVGLSGVFPLLVIPLMGTLRSEAGAWRLKQLLSFALGGLGNVFLHLLPEAWAYTCSASPGGEGQSLQQQQQ  
LGLWVIAGILTFLALEKMF LDSKEEGTSQAPNKDPTAAAAALNGGHCLAQPAAEPGLGAVVRSIKVSGYLNLLAN  
TIDNFTHGLAVAASFLVSKKIGLLTTMAILLHEIPHEVGDFAILLRAGFDRWSAAKLQLSTALGGLLGAGFAICT  
QSPKGVVGCSPAAEETAAWVLPFTSGGFLYIALVNVLPDLLEEDPWRSLQQLLLLCAGIVVMVLFSLFVD

3475/6881  
**FIGURE 3204**

CAGTGCCTTGGTAATGACCAGGGCTCCAGAAAGAGATGTCCTTGTGGCTGGGGGCCCCCTGTGCCTGACATTCTC  
CTGACTCTGCGGTGGAGCTGTGGAAGCCAGGCGCACAGGATGCAAGCAGCCAGGCCCAGGGAGGCAGCAGCTGCA  
TCCTCAGAGAGGAAGCCAGGATGCCCCACTCTGCTGGGGGTACTGCAGGGGTGGGGCTGGAGGCTGCAGAGCCCA  
CAGCCCTGCTCACCAGGGCAGAGCCCCCTTCAGAACCCACAGAGATCCGTCCACAAAAGCGGAAAAAGGGGCCAG  
CCCCAAAATGCTGGGGAACGAGCTATGCAGCGTGTGTGGGGACAAGGCCTCGGGCTTCCACTACAATGTTCTGA  
GCTGCGAGGGCTGCAAGGGATTCTTCCGCCGCAGCGTCATCAAGGGAGCGCACTACATCTGCCACAGTGGCGGCC  
ACTGCCCCATGGACACCTACATGCGTCGCAAGTGCCAGGAGTGTGGCTTCGCAAAATGCCGTGAGGCTGGCATGC  
GGGAGGAGTGTGCTCTGTCAGAAGAACAGATCCGCTGAAGAACTGAAGCGGCAAGAGGAGGAACAGGCTCATG  
CCACATCCTTCCCCCCCAGGCGTTCTCACCCCCCAAATCCTGCCCCAGCTCAGCCCCGAACAACCTGGGCATGA  
TCGAGAAGCTCGTCGCTGCCCAGCAACAGTGTAACCGGCGCTCCTTTCTGACCGGCTTCGAGTCACGCCTTGGC  
CCATGGCACCAGATCCCCATAGCCGGGAGGCCCGTCAGCAGCGCTTTGCCCACTTCACTGAGCTGGCCATCGTCT  
CTGTGCAGGAGATAGTTGACTTTGCTAAACAGCTACCCGGCTTCCTGCAGCTCAGCCGGGAGGACCAGATTGCCC  
TGCTGAAGACCTCTGCGATCGAGGTGATGCTTCTGGAGACATCTCGGAGGTACAACCCCTGGGAGTGAGAGTATCA  
CCTTCCTCAAGGATTTTCAATTATAACCGGGAAGACTTTGCCAAAGCAGGGCTGCAAGTGGAATTCATCAACCCCA  
TCTTCGAGTTCTCCAGGGCCATGAATGAGCTGCAACTCAATGATGCCGAGTTTGCCTTGCTCATTGCTATCAGCA  
TCTTCTCTGCAGACCGGCCCAACGTGCAGGACCAGCTCCAGGTGGAGAGGCTGCAGCACACATATGTGGAAGCCC  
TGCATGCCTACGTCTCCATCCACCATCCCCATGACCGACTGATGTTCCACGGATGCTAATGAAACTGGTGAGCC  
TCCGGACCTGAGCAGCGTCCACTCAGAGCAAGTGTTGCACTGCGTCTGCAGGACAAAAAGCTCCCACCGCTGC  
TCTCTGAGATCTGGGATGTGCACGAATGACTGTTCTGTCCCCATATTTCTGTTTTCTTGGCCGGATGGCTGAGG  
CCTGGTGGCTGCCTCCTAGAAGTGGAACAGACTGAGAAGGGCAAACATTCCTGGGAGCTGGGCAAGGAGATCCTC  
CCGTGGCATTAAAAGAGAGTCAAAGGGT

3476/6881  
**FIGURE 3205**

MSLWLGA PVPDIPPD S AVELWKPGAQDASSQAQGGSSCILREEARMPHSAGGTAGVGLEAAEPTALLTRAEPPE  
PTEIRPQKRKKGPAPKMLGNELCSVCGDKASGFHYNVLSCEGCKGFFRRSVIKGAHYICHSGGHCPMDTYMRRKC  
QECRLRKCRQAGMREECVLSEEQIRLKKLKRQEEEAHATSLPPRRSSPPQILPQLSPEQLGMIEKLVAQQQCN  
RRSFSDRLRVTPWPMADPHSREARQQRFAHFTELAIVSVQEIVDFAKQLPGFLQLSREDQIALKTS AIEVMLL  
ETSRRYNPGSESITFLKDFSYNREDFAKAGLQVEFINPIFEFSRAMNELQLNDAEFALLIAISIFSADRPNVQDQ  
LQVERLQHTYVEALHAYVSIHHPHDRLMFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKL PPLLSEIWDVHE

3477/6881  
**FIGURE 3206**

TTGCTGCATAGATTACAACGGTGATGGCGGGCAAGCGGTCCGGCTGGAGCCGGGCGGCTCTCCTCCAGCTCCTTC  
TCGGCGTGAACCTGGTGGTGATGCCGCCACCCGGGCGCGAGTCTGCGCTTCGTTACCTTGCTGTACCGCCATG  
GAGACCGTTACCAAGTGAAGACATATCCCAAGGACCCCTATCAGGAAGAAGAATGGCCCCAGGGGTTTGGTCAGT  
TAACCAAGGAGGGGATGCTACAGCACTGGGAAGTGGGCCAGGCCCTGCGGCAGCGCTATCACGGCTTCCTAAACA  
CCTCTTATCACCGGCAAGAGGTTTATGTGCGAAGCACAGACTTTGACCGGACTCTCATGAGTGTGAGGCCAAC  
TGGCTGGACTCTTCCCTCCCAACGGGATGCAGCGCTTCAACCCGAACATCTCGTGGCAGCCTATTCTGTGCACA  
CTGTGCCCATCACTGAGGACAGGCTGCTGAAGTTCCCGTTGGGCCCATGTCCCCGTTATGAGCAGCTGCAGAACG  
AGACCCGGCAGACACCAGAGTATCAGAATGAGAGTTCTCGGAATGCACAATTTCTGGACATGGTGGCCAACGAGA  
CAGGGCTTACAGACCTGACACTGGAGACCGTCTGGAATGTCTATGACACACTCTTCTGTGAGCAAACGCACGGGC  
TGCGCCTGCCGCCCTGGGCCTCACCCCAAACCATGCAGCGTCTCAGCCGGCTAAAGGACTTCAGCTTCCGCTTCC  
TCTTCGGAATCTACCAGCAGGCGGAGAAGGCCCGGCTTCAGGGGGAGTCTGCTGGCTCAGATAAGGAAGAACC  
TGACCTAATGGCGACCACCTCCCAGCTCCCCAAGCTGTGGTTTACTCTGCGCACGACACTACCCTGGTTGCCC  
TGCAAATGGCACTGGATGTCTACAATGGTGAACAAGCCCCCTACGCCTCTGCCACATATTTGAACTGTACCAGG  
AAGATTCTGGGAATTTCTCAGTGGAGATGTACTTTCCGAACGAGAGTGACAAGGCCCCCTGGCCGCTCAGCCTGC  
CTGGCTGCCCTCACCGCTGCCCACTGCAGGACTTCCTTCGCCTCACAGAGCCCGTCTGTGCCAAGGATTGGCAGC  
AGGAGTGCCAGCTGGCAAGCGGTCTGCAGACACAGAGGTGATTGTGGCCTTGGCTGTATGTGGCTCCATCCTCT  
TCCTCCTCATAGTGCTGCTCCTCACCGTCTCTTCCGGATGCAGGCCCAGCCTCCTGGCTACCGCCACGTGCGAG  
ATGGGGAGGACCACGCCGTACAACCACTCAGCCCCCTTCCCTCCACCTCCTAGGGGAGGTGGGCTGGGCCCTCGC  
TCCTGACTGTTGCTGCTCCCCAGCCCATGGACAGGAGATCCTGGGTTGGGCTCCCTCTGATGACCCAGCCAGA  
TGAGCGAGTGGGGCTCAGCGTGGCCCATGGTGCCTGTCACTCAGCATTCCCATGCCTGATGTTTACCAAGTGCTG  
TGTTGGACACTGGCTTTCTCCAAACAGGATTTGCCTCCTCCACGCTCCCTACACACCTGAGATGTAACTGGCAG  
TCAGTGTCACTCAGGACCTAGGATTAGAAAATGGCAGAGTTGGTGTGGATCCACCTTGCACTTCTATCAAGCC  
CTGTTCTTTTCTCCAGCCTGAAGTCTTCGGCAAATAGCTCAGAGGGACACGGTCTTGCCTCTCAGTGCTTATT  
TTAGTGGGAAAAACAGCTAATACCAGGGGTACAAACATTGGCTCCCAAGGAACTGGATACCCAAACAGCCAGCCA  
GCCACATTTCCCTGTGTCTGGCTAGAGCCACCATTAGACTCAGACAGAATGCTTCAGGAATCGTTGTACCCCTT  
CAACTGGAGCAGGACGGAAGGTTGTCTGTACTTGGGAGGGAGTGGGGAGTGGTGGGAAGGGAGTTGCTTGTACACA  
CGAATCAGGAACTGCTCTCCCTCAGCTGGGCTGGGGTCTCCAGGGACCTGAGCTACATGCAGGTTGTGAGCTGG  
AAAAGAAAGTTCTAGACTGTGGCCCAAGATAGGGCTGGGGCAGCTCCAGAGAATGAATAGTGTGTTTCTATT  
GGACTGATA

3478/6881

**FIGURE 3207**

MAGKRSGWSRAALLQLLGVNLVVMPPTRARSLRFVTLRYHGDRSPVKTYPKDPYQEEEWPGFGQLTKEGMLQ  
HWELGQALRQRYHGFLNTSYHRQEVYVRSTDFDRTLMSAEANLAGLFPPNGMQRFNPNISWQIPVHTVPITEDR  
LLKFPLGPCPRYEQLNETRQTPEYQNESSRNAQFLDMVANETGLTDLTLETVWNVYDTLFCQTHGLRLPPWAS  
PQTMQRLSRLKDFSFRFLFGIYQQA EKARLQGGVLLAQIRKNLTLMATTSQLPKLLVYSAHDTTLVALQMALDVY  
NGEQAPYASCHIFELYQEDSGNFSVEMYFRNESDKAPWPLSLPGCPHRCPLQDFLRLTEPVVPKDWQQECQLASG  
PADTEVIVALAVCGSILFLLIVLLLTVLFRMQAQP PGYRHVADGEDHA

3479/6881  
**FIGURE 3208**

GAGCTCCAAGCTGGTTTGAACAAGCCCTGGGCATGTTTGGCGGGAAGTTGGCTTAGCTCGGCTACCTGTGGCCCC  
GCAGTTTTGTAGTCCCCGCCTTGTTTCTCCCCAGAGGCCTCTCAATCCTCCCTCCATGATCTTCGCATAGAGCAC  
AGTACCCCTTCACACGGAGGACGCGATGGCTCCCAAGAAACGCCCAGAAACCCAGAAGACCTCCGAGATTGTATT  
ACGCCCCAGGAACAAGAGGAGCAGGAGTCCCTGGAGCTGGAGCCCGAGGCCAAGAAGCTCTGTGCGAAGGGCTC  
CGGTCTTAGCAGAAGATGTGACTCAGACTGCCTCTGGGTGGGGCTGGCTGGCCACAGATCCTGCCACCATGCCG  
CAGCATCGTCAGGACCCTCCACCAGCATAAGCTGGGCAGAGCTTCCTGGCCATCTGTCCAGCAGGGGCTCCAGCA  
GTCCTTTTTGCACACTCTGGATTCTTACCGGATATTACAAAAGGCTGCCCCCTTTGACAGGAGGGCTACATCCTT  
GGCGTGGCACCCAACTCACCCAGCACCCTGGCTGTGGGTTCCAAAGGGGGAGATATCATGCTCTGGAATTTTGG  
CATCAAGGACAAACCCACCTTCATCAAAGGGATTGGAGCTGGAGGGAGCATCACTGGGCTGAAGTTTAACCCTCT  
CAATACCAACCAGTTTTACGCCTCCTCAATGGAGGGAACAACCTAGGCTGCAAGACTTTAAAGGCAACATTCTACG  
AGTTTTTGGCAGCTCAGACACCATCAACATCTGGTTTTGTAGCCTGGATGTGTCTGCTAGTAGCCGAATGGTGGT  
CACAGGAGACAACGTGGGGAACGTGATCCTGCTGAACATGGACGGCAAAGAGCTTTGGAATCTCAGAATGCACAA  
AAAGAAAGTGACGCATGTGGCCCTGAACCCATGTGTGATTGGTTCTTGGCCACAGCCTCCGTAGATCAAACAGT  
GAAAATTTGGGACCTGCGCCAGGTTAGAGGGAAAGCCAGCTTCTCTACTCGCTGCCGCACAGGCATCCTGTCAA  
CGCAGCTTGTTTCAGTCCCGATGGAGCCCGGGCTCCTGACCACGGACCAGAAGAGCGAGATCCGAGTTTACTCTGC  
TTCCCAGTGGGACTGCCCCCTGGGCCTGATCCCGCACCCCTCACCGTCACTTCCAGCACCTCACACCCATCAAGGC  
AGCCTGGCATCCTCGCTACAACCTCATTGTTGTGGGCCGATACCCAGATCCTAATTTCAAAGTTGTACCCCTTA  
TGAATTGAGGACGATCGACGTGTTCGATGGAACTCAGGGAAGATGATGTGTGCTAGCTCTATGACCCAGAATCTTC  
TGGCATCAGTTTCGCTTAATGAATTCAATCCCATGGGGGACACGCTGGCCTCTGCAATGGGTACCACATTCTCAT  
CTGGAGCCAGGAGGAAGCCAGGACACGGAAGTGAGAGACACTAAAGAAGGTGTGGGCCAGACAAGGCCTTGGAGC  
CCACACATGGGATCAAGTCTTCAAGCAGAGGTGGTGATTTGTTAAAGGGCCAAAAGTATCCAAGGTTAGGGTTG  
GAGCAGGGGTGCTGGGACCTGGGGCACTGTGGGACTGGGACACTTTTATGTTAATGCTCTGGACTTGCCCTCCAGA  
GACTGCTCCAGAGTTGGTGACACAGCTGTCCCAAGGGCCCCTCTGTATCTAGCCTGGAACCAAGGTTATCTTGGA  
ACTAAATGACTTTTCTCCTCTCAGTGGGTGGTAGCAGAGGGATCAAGCAGTTATTTGATTTGTGCTCTTTTGATA  
TGGCCAATAAAACCATACCG

3480/6881  
**FIGURE 3209**

MAPKKRPETQKTSEIVLRPRNKRSPLELEPEAKKLCAGSGPSRRCDSDCLWVGLAGPQILPPCRSIVRTLHQ  
HKLGRASWPSVQQGLQQSFLHTLDSYRILQKAAPFDRRATSLAWHPTHPTSTVAVGSKGGDIMLWNFGIKDKPTFI  
KGIGAGGSITGLKFNPLNTNQFYASSMEGTTRLQDFKGNILRVFASSDTINIWFCSLDVSASSRMVVTGDNVGNV  
ILLNMDGKELWNLRMHKKKVTHVALNPCCDWFLATASVDQTVKIWDLRQVRGKASFLYSLPHRHPVNAACFSPDG  
ARLLTTDQKSEIRVYSASQWDCPLGLIPPHRHFQHLTPIKAAWHPRYNLIVVGRYPDPNFKSCTPYELRTIDVF  
DGNSGKMMCQLYDPESGSSLNENPMGDTLASAMGYHILIWSQEEARTRK

**FIGURE 3210**

[illegible]



3482/6881  
**FIGURE 3211**

MAPEEDAGGEALGGSFWEAGNYRRTVQRVEDGHRLCGDLVSCFQERARIEKAYAQQADWARKWRGTVEKGPQYG  
TLEKAWHAFFTAERLSALHLEVREKLQGQDSEVRVWQAFHRPVLGGFRESRAAEDGFRKAQKPWLKRLKEV  
EASKKSYHAARKDEKTAQTRESHAKADSAVSQEQLRKLQERVERCAKEAEKTKAQYEQTALAEHRYTPRYMEDME  
QAFETCQAAERQRLFFKDMLLTLHQHLDLSSEKFHELHRDLHQGIEAASDEEDLRWWRSTHGPGMAMNWPQFE  
EWSLDTQRTISRKEKGRSPDEVTLTSIVPTRDGTAPPPQSPGSPGTGQDEWSDEESPRKAATGVRVRALYDYA  
GQEADELSFRAGEELLKMSEDEQGCQGLQSGRIGLYPANYVECVGA

3483/6881  
**FIGURE 3212**

TGGGAAGGAGAGAAAATGGCGGCGGAGCCGAACAAGACCGAAATCCAGACTCTTTTAAAGAGGCTTCGCGCAGTT  
CCAACCAACAAGGCCTGTTTCGACTGCGGCGCCAAGAATCCGAGTTGGGCCAGCATCACGTACGGTGTTTTCTTG  
TGCATTGACTGTTCCGGGGTGCACCGCTCCCTGGGCGTCCATCTGAGCTTCATCAGGTCCACAGAGTTGGATTCC  
AACTGGAACTGGTTCCAGCTGAGGTGTATGCAGGTGCGGCGGAATGCCAATGCGACGGCTTTTTTTCGCCAACAT  
GGATGCACAGCCAATGATGCCAACACCAAATATAATAGCCGAGCTGCCCAGATGTACCGGGAGAAGATCCGGCAG  
CTGGGGAGTGCGGCCCTGGCTAGGCATGGCACTGATCTTTGGATAGACAACATGAGTAGTGCCGTTCCCTAATCAC  
TCCCCAGAGAAGAAGGACTCTGATTTCTTCACAGAACACACTCAACCCCTGCCTGGGATGCGCCAGCCACTGAG  
CCTTCAGGGACCCAGCAGCCAGCCCCGTCTACAGAGAGCAGTGGCCTGGCACAGCCGGAGCATGGCCCCAACACA  
GACCTGCTTGGCACCTCACCCAAAGCCTCACTGGAAGTGAAGCTCCATCATTGGCAAGAAGAAGCCAGAGCTT  
CAGTGAGATTGAGCGGCAGGCTCAGGTGGCAGAGAAGCTCCGTGAGCAGCAGGCAGCCGATGCCAAGAAGCAGGC  
GGAGGAGTCCATGGTCGCTCCATGCGTCTGGCCTACCAGGAGCTCCAGATTGATCGTAAGAAAGAGG

3484/6881  
**FIGURE 3213**

MAAEPNKTEIQTLFKRLRAVPTNKACFDCGAKNPSWASITYGVFLCIDCSGVHRS LGVHLSFIRSTE LDSNWNWF  
QLRCMQVGGNANATAFFRQHGCTANDANTKYNSRAAQMYREKIRQLGSAALARHGTDLWIDNMSSAVPNHSPEKK  
DSDFFTEHTQPPAWDAPATEPSGTQQFAPSTESSGLAQPEHGPNTDLLGTSPKASLELKSSIIGKKKPAAAKKGL  
GAKKGLGAQKVSSQSFSEIERQAQVAEKLREQQAADAKKQAEESMVASMLAYQELQIDRKKEEKKLQNLEGKKR  
EQAERLGMGLVSRSSVSHSVLSEMQVIEQETPVSAKSSRSQDLDFDDVGTTFASGPPKYKDNPFSLGESFGSRWDT  
DAAWGMDRVEEKEPEVTISSIRPISERATNRREVESRSSGLESSEARQKFAGAKAISSDMFFGREVDAEYEARSR  
LQQLSGSSAISSSDLFGDMDGAHGAGSVSLGNVLP TADIAQFKQGVKSVAGKMAVLANGVMNSLQDRYGSY

3485/6881  
**FIGURE 3214**

GAAAAAGGGGGTTTCGTTTACATGCTGTGAGATCACCGCAAACCTACCTCACTGTGTTGAAACGGGACAAATACA  
ATAGAACGCATTGGGTGGTGTGTCTGATCCTGGGTCTTGTCTCCCCTAAATGCTGCCCCCAAGTTACTGTA  
TTTGTCTGGGCTTTGTAGGACTTCACTAAGTTGATTGCTAGGTGGCCTAGTTTGTGTAAATATAATGTATTGGTC  
TTCCTCCGTGTTCTTTGGGGGTTTGTTTACAAAGTTCCTTTTGTATTGAGAGAAAAATAGCCAAAGCATCTTG  
ACAGAAGTTTCTGCACCAGGCAAAAAGATCTGAAACATTAGTTTGGGGGGCCCGCTTCTTAAAGTGGGGATCTTG  
AACCATCCTTTCTTTGTATTCCCCTTCCCCTATTACCTATTAGACCAGATCTTCTGTCTTAAAACTGTCTTC  
TACCCTGCCCTCTTTCTGTTCAACCCCAAAAGAAAACCTTACACACCCACACACATACACATTTAATGCTTGGAG  
TGTCTCCACAACCTTAAATGATGTATGCAAAAATCCTGAAGCTAGGAAAACCTCCATCCCTTGTTCCTAACCT  
CCTAAGTCAAGACCATTACATTTCTTTCTTTTTTGGTGGGGGGGGGGGGTGGATGGAGTCTCGCTCTGTGCGC  
CCAGGCGGAGGTTGCAGTGAGCTGAGATCGCACCCTGCACTCCAGCCTGGTTACAGAGCAAGACCCTGTCTCGA  
AAAAAAAAAAAAACAAAAAACAACAAAAAACCACACTACTGTATTTGGATGGATCAAACCTACTTACTTTT  
AATTCTAATCCTAAAGTAAAGAGATGCAATTGGGGGCTTCCATGTAGAAAGTGGGGTCAGGAGGCCAAGAAAG  
GGAATATGAATGTATATCCAAGTCACTCAGGAACCTTATGTCAGGTGGTAGAAACCTTATGTCAAAGTGGCCACAA  
GATTGTTTAAATAGGAGATGAATGAATGTAACCTCCATGTTTACTGCTAGAAACCAAGCTTGTGTAAATCTTGA  
ATTTATGGGGAGGGAGGGTAGGAAAGCCTGTACCTGTCTGTTTTTTCCTGATCCTTTTCCCTCATTCCTGAACCT  
GCAGGAGACTGAGCCCTTTGGGCTTGGTGACCCCATCACTGGGGTGTGTTTATTTGACGGTTGATTTTGCTGT  
ACTGGGTACTTCCTTTCCCATTTTCTCATCATTTTTTAACACATGCTGACTCTTCCCTTCCCTTCTCCTTTCCCT  
GGGAAAATACAATGAATAAATAAAGACTTACTGGTAC

3486/6881  
**FIGURE 3215**

GAATTCCGTACGGCTTCCGGTGGCGGGACGCGGGGCCGCGCACGCGGGAAAAGCTTCCCCGGTGTCCCCCATCC  
CCCTCCCCGCGCCCCCCCCCGCTCCCCCAGCGCGCCACCTCTCGCGCCGGGGCCCTCGCGAGGCCGAGCCTG  
AGGAGATTCCCAACCTGCTGAGCATCCGCACACCCACTCAGGAGTTGGGGCCCAGCTCCCAGTTTACTTGGTTTC  
CCTTGTGCAGCCTGGGGCTCTGCCAGGCCACCACAGGCAGGGGTGACATGGCAGAGACACTGGAGTTCAACGA  
CGTCTATCAGGAGGTGAAAGGTTCCATGAATGATGGTGCAGTGAAGTTGAGCCGTCAGGGCATCATCTTCAAGAA  
TAGCAAGACAGGCAAAGTGGACAACATCCAGGCTGGGGAGTTAACAGAAGGTATCTGGCGCCGTGTTGCTCTGGG  
CCATGGACTTAAACTGCTTACAAAGAATGGCCATGTCTACAAGTATGATGGCTTCCGAGAATCGGAGTTTGAGAA  
ACTCTCTGATTTCTTCAAACCTACTATCGCCTTGAGCTAATGGAGAAGGACCTTTGTGTGAAGGGCTGGAAGTG  
GGGACAGTGAAATTTGGTGGGCAGCTGCTTTTCTTTGACATTGGTGACCAGCCAGTCTTTGAGATACCCCTCAG  
CAATGTGTCCAGTGCACCACAGGCAAGAATGAGGTGACACTGGAATTCACCAAAACGATGACGCAGAGGTGTC  
TCTCATGGAGGTGCGCTTCTACGTCCACCCACCCAGGAGGATGGTGTGGACCCTGTTGAGGCCTTTGCCAGAA  
TGTGTTGTCAAAGCGGATGTAATCCAGGCCACGGGAGATGCCATCTGCATCTTCCGGGAGCTGCAGTGTCTGAC  
TCCTCGTGGTCTTATGACATTCTGATCTACCCACCTTTCTGCACCTGCATGGCAAGACCTTTGACTACAAGAT  
CCCCTACACCACAGTACTGCGTCTGTTTTTGTACCCACAAGGACCAGCGCCAGATGTTCTTTGTGATCAGCCT  
GGATCCCCCAATCAAGCAAGGCCAACTCGCTACCCTTCTGATCTCTCTTCTTCCAAGGACGAGGACATTTT  
GTTGACTCTGAACATGAACGAGGAAGAAGTGGAGAAGCGCTTTGAGGGTCGGCTCACCAAGAACATGTCAGGATC  
CCTCTATGAGATGGTCAGCCGGGTGATGAAAGCACTGGTAAACCGCAAGATCACAGTGCCAGGCAACTTCAAGG  
GCACTCAGGGGGCCAGTGCAATTACCTGTTCTTACAAGGCAAGCTCAGGACTGCTCTACCCGCTGGAGCGGGCTT  
CATCTACGTCCACAAGCCACCTGTGCACATCCGCTTCGATGAGATCTCCTTTGTCAACTTTGCTCGTGGTACCAC  
TACTACTCGTTCTTTGACTTTGAAATTGAGACCAAGCAGGGCACTCAGTATACCTTCAGCAGCATTGAGAGGGA  
GGAGTACGGGAACTGTTTGATTTTGTCAACGCGAAAAAGCTCAACATCAAAAACCGAGGATTGAAAGAGGGCAT  
GAACCAAGCTACGATGAATATGCTGACTCTGATGAGGACCAGCATGATGCCTACTTGGAGAGGATGAAGGAGGA  
AGGCAAGATCCGGGAGGAGAATGCCAATGACAGCAGCGATGACTCAGGAGAAGAAACCGATGAGTCATTCAACCC  
AGGTGAAGAGGAGGAAGATGTGGCAGAGGAGTTTGACAGCAACGCCTCTGCCAGCTCCTCCAGTAATGAGGGTGA  
CAGTGACCGGGATGAGAAGAAGCGGAAACAGCTCAAAAAGGCCAAGATGGCCAAGGACCGCAAGAGCCGCAAGAA  
GCCTGTGGAGGTGAAGAAGGGCAAAGACCCCAATGCCCAAGAGGCCCATGTCTGCATACATGCTGTGGCTCAA  
TGCCAGCCGAGAGAAGATCAAGTCAGACCATCCTGGCATCAGCATCACGGATCTTTCCAAGAAGGCAGGCGAGAT  
CTGGAAGGGAATGTCCAAAGAGAAGAAGAGGAGTGGGATCGCAAGGCTGAGGATGCCAGGAGGGACTATGAAAA  
AGCCATGAAAGAATATGAAGGGGGCCGAGGCGAGTCTTCTAAGAGGGACAAGTCAAAGAAGAAGAAGAAAGTAAA  
GGTAAAGATGAAAAGAAATCCACGCCCTCTAGGGGCTCATCATCAAGTCGTCTCAAGGCAGCTAAGCGAGAG  
CTTCAAGAGCAAAGAGTTTGTGTCTAGTGATGAGAGCTCTTCGGGAGAGAACAAGAGCAAAAAGAAGAGGAGGAG  
GAGCGAGGACTCTGAAGAAGAAGAACTAGCCAGTACTCCCCCAGCTCAGAGGACTCAGCGTCAGGATCCGATGA  
GTAGAAACGGAGGAAGGTTCTCTTTGCGCTTGCTTCTCACACCCCCGACTCCCCACCCATATTTGGTACCAG  
TTTCTCTCATGAAATGCAGTCCCTGGATTCTGTGCCATCTGAACATGCTCTCCTGTTGGTGTGTATGTACTAG  
GGCAGTGGGAGACGTCTTAACCTCTGCTGCTTCCCAAGGATGGCTGTTTATAATTTGGGAGAGATAGGGTGGGA  
GGCAGGGCAATGCAGGATCCAAATCCTCATCTTACTTTCCGACCTTAAGGATGTAGCTGCTGCTTGTCTGTTT  
AAGTTGCTGGAGCAGGGGTGATGTGAGGCCAGGCCTGTAGCTCCTACCTGGGGCTATTTCTACTTTTCAATTTGT  
ATTTCTGGTCTGTGAAATGATTTAATAAAGGGAAGTACTTTGGAACCAAAAAAAGGAATTC

3487/6881  
**FIGURE 3216**

MAETLEFNDVYQEVKGSMDGRLRLSRQGIIFKNSKTGKVDNIQAGELTEGIWRRVALGHGLKLLTKNGHVYKYD  
GFRESEFEKLSDFFKTHYRLELMEKDLCVKGWNWGTIVKFGGQLLSFDIGDQPVFEIPLSNVSQCTTGKNEVTLEF  
HQNDDAEVSLMEVRFYVPPTQEDGVDPVEAFAQNVLSKADVIQATGDAICIFRELQCLTPRGRYDIRIYPTFLHL  
HGKTFDYKIPYTTVLRLFLPHKDQRQMFFVISLDPPIKQGQTRYHFLILLFSKDEDISLTLNMNEEEVEKRFEG  
RLTKNMSGSLYEMVSRVMKALVNRKITVPGNFQGHSGAQCTCSYKASSGLLYPLERGFYVHKPPVHIRFDEIS  
FVNFAFGTTTTTSFDFEIEKQGTQYTFSSIEREEYGKLFDFVNAKKLNIKNRGLKEGMNPSYDEYADSDQHD  
AYLERMKEEGKIREENANDSSDDSGEETDESFPNGEEEDVAEEFDSNASASSSSNEGDSRDEKKRQLKKAKM  
AKDRKSRKPPVEVKKGKDPNAPKRPMAYMLWLNASREKIKSDHPGISITDLSKKAGEIWKGMSKEKKEEWDKA  
EDARRDYEKAMKEYEGGRGESSKRDKSKKKKKVKVMEKKSTPSRGSSSKSSSRQLSESFKSKEFVSSDESSSGE  
NKSKKKRRRSEDSEEEELASTPPSSSEDASGSDE

3488/6881  
**FIGURE 3217**

ATGGCCTCCCACGAAGTTGATAATGCAGAGCTGGGGTCAGCCTCTGCCCATGGTACCCCAGGCAGTGAGGCGGGA  
CCAGAAGAGCTGAATACTTCTGTCTACCAGCCCATAGATGGATCACCAGATTATCAGAAAGCAAAATTACAAGTT  
CTTGGGGCCATCCAGATCCTGAATGCAGCAATGATTCTGGCTTTGGGTGTCTTTCTGGGTTCCTTGCAATACCCA  
TACCACTTCCAAAAGCACTTCTTTTTCTTCACCTTCTACACAGGCTACCCGATTGGGGTGCTGTGTTTTCTGT  
AGTTCAGGAACCTTGCTGTGTAGCAGGGATAAAACCCACAAGAACATGGATACAGAACAGTTTTGGAATGAAC  
ATTGCCAGTGCTACAATTGCACTAGTGGGGACTGCTTTTCTCTCACTAAATATAGCAGTTAATATCCAGTCATTA  
AGGAGTTGTCACCTTTCATCAGAGTCACCGGACCTATGCAATTACATGGGCTCCATATCAAATGGCATGGTGTCT  
CTACTGCTGATTCTCACCTTGCTGGAATTATGCGTAACCATCTCTACCATAGCCATGTGGTGCAATGCAAAGTGC  
TGTAATTCAAGAGAGGAAATTCCTCACCTCCCAATTCTGTGTAA

3489/6881  
**FIGURE 3218**

AGGTTTCGGCGGGGGCTGCACGTGCGCAGGGGTGTGGAACTTACCGGCTGAGCCATGGATACACCGTTAAGGCG  
CAGCCGACGGCTGGGAGGCCTAAGGCCCAGATCCCCGAGAGCCTCACCTCAGTTTCGCGGACGAGACGGGCCCT  
TGTGGAGTTCGAGTCGAACCCAGAAGAAACGAGGGAGCCCGGGTCTCCTCCGAGTGTGCAGCGGGCTGGCCTGGG  
GTCCCCGAAAGGCCGCCGAAGACAAGCCCAGGATCACCCCGTCTGCAGCAGGGTGCAGGCTTGGAGTACCCCCA  
AGGGCAGCCAGAGCCAGGCGCAGCGTCCCCCAGCGTCAGCAAGACCTACACCTGGAGTCGCCTCAAAGACAGCC  
AGAGTACAGTCTGAATCCCCACGATGTCAGCCGAAGCCAAGTGAGGAGGCACCAAAGTGTCTCAGGACCAGGG  
AGTACTGGCCTCGGAGTTGGCCCAGAATAAGGAGGAGCTGACCCCGGGGGCCCCCAGCATCAGCTACCGCCGT  
CCCAGGATCACAGAGCCTTACCCCGGTGAGCAAGCTCCCGGTCCGGAGCCCTCTCAGCCACTACTGGAGCTGAC  
ACCCAGGGCACCTGGCTCCCCCGGGGTGAGCATGAGCCGAGCAAGCCACCTCCAGCTGGGGAGACGGTGACAGG  
CGGCTTCGGGGCAAAGAAGCGAAAAGGTTCTTCATCCAGGCCCCAGCGTCCAAGAAGTTGAATAAAGAGGAGCT  
TCCTGTAATCCCGAAGGGGAAGCCCCAAATCGGGGCGAGTGTGGAAGGACCGCTCCAAGAAAAGATTCTCCAGAT  
GCTTCAGGACAAGCCCCCTGCGCACATCGTGGCAGCGGAAGATGAAGGAACGACAGGAGAGGAAGCTGGCCAAAGGA  
CTTTGCCCCGTACCTGGAGGAGGAGAAGGAGAGGCGCCGCCAGGAGAAGAAACAGCGCCGGGCTGAGAACCTGAA  
ACGCCGCTGGAGAATGAGCGGAAGGCAGAGGTCTGTCAGTGATCCGAAACCCCGCCAAGCTCAAGCGGGCAA  
GAAGAAGCAGCTGCGCTCCATTGAGAAGCGGGACACCTGGCCCTGCTGCAGAAGCAGCCGCCCCAGCAGCCGGC  
AGCCAAGATCTGAGCTCAGGACGGCCCCGAGGCCTTCCATGGCCAACGACCATGTGACACACAGCACCTCAGGCCG  
CTGCTCAGATGCCTCTGCTGGAGCTGGCACTCCAACCCTGGCTCCAGAACGGGGACCCCCACCCCGACCGGGG  
CTCCTCGGCCTTTGAAGGCTTCCAGGCAGGTCTGTGTGGGACAGAAGCCCAGAGGGGGCCTGGGACCTGGCAGAG  
ATGGGGGCGGGAAGAGATTCAGCTCCCATCCCTCCTTCTCCTTCTCCAAGTGCCTTCAAACCAAGAAGTGT  
CATTCTTCTGGTTCCCTCAGTGAGCTGGTGACTGGCAGGTGACTCCCTCAGCAGTGTATGCCCTTCTCAGCATCC  
TAGGTCCATCCCAGGCCTGGAGGCTGACAGTTGGGAATCCAGCTTCCCCCACACCTTCCCAAAGGCTGCTCTGAG  
CACCTCCACACCCCACTGCCTCTGTCCCCAGCAAAGTGAATCCGGTTCTCTCCACTTTTCAATACTGAAAGATT  
AAAATGGGGAGGTTGCAGGGAGCAGAGCTTTCCCTAGCACCCACTTTCCCAAACCAAGTCTCTGCAGAAGCCCCA  
GAGAATCTAACTCATGCCTGTCCAGTCTACAGCAAAAATATTTATTGAGTGCCTGTTGCATACAGGCACAATCCT  
AGGCACCGGCAAATACAGACAATAGACCAAAGTCCCTGCCCTCGAGGAGCTTTCATTCTGATGGAGAGAAAACAT  
AATAACAAGCAAAATGCAAAAAAAAAAAAAAAAAA



3490/6881  
**FIGURE 3219**

MDTPLRRSRRLGGLRPESPELTSVSRTRRALVEFESNPEETREPGSPPSVQRAGLGSPERFPKTSFGSPRLQQG  
AGLESPQGQPEPGAASPRQQDLHLESPQRQPEYSPESPRCQPKPSEEAPKCSQDQGVLAELAQNKEELTPGAP  
QHQLPPVPGSPEPYPGQAPGPEPSQPLLELTPRAPGSPRGQHEPSKPPPAGETVTGGFGAKKRKGSSSQAPASK  
KLNKEELFVIPKGKPKSGRVWKDRSKKRFSQLQDKPLRTSWQRKMKERQERKLAKDFARHLEEEKERRRQEKKQ  
RRAENLKRRLENERKAEVVQVIRNPAKLKRAKKKQLRSIEKRDTLALLQKQPPQQAQAKI

3491/6881  
**FIGURE 3220**

AATTCGGCACGAGGAGGTGCTGAAGGCTGTGGCGCGCGGCTGTCCCCATTCCCACGTGAAGCGCTACGCTAGCAT  
CGCTCGGCTGGCGGCTCCAGCTCGCCGCGGAGCAGTCCCGGCAGCAGCGGGGACCGGAAGTGGCTCGCGGAGG  
CTCAGAAGCTAGTCCCGGAGCCCGGCTGTGGCGCCTCGGAGCACGGTGACGGCGCCATGTCCCTAATCTGCTCC  
ATCTCTAACGAAGTGCCGGAGCACCCTATGTGTATCCCTGTCTCTAATCATGTTTATGAGCGGGGCTCATCGAG  
AAGTACATTGCGGAGAATGGTACCGACCCCATCAACAACCAGCCTCTCTCCGAGGAGCAGCTCATCGACATCAAA  
GTTGCTACCCAATCCGGCCCAAGCCTCCCTCAGCCACCAGCATCCCGGCCATTCTGAAAAGCTTTGCAGGATGAG  
TGGGATGCAGTCATGCTGCACAGCTTCACTCTGCGCCAGCAGCTGCAGACAACCCGCCAAGAGCTGTCACACGCT  
CTGTACCAGCACGATGCCGCTGCCGTGTCATTGCCGTCTCACCAGGAAGTCACTGCTGCCCGAGAAGCTCTG  
GCTACCTGAAACCACAGGCTGGCCTCATTGTGCCCCAGGCTGTGCCAAGTTCCCAACCAAGTGTGTTGGGTGCG  
GGTGAGCCAATGGATTGGGTGAGCTGGTGGGAATGACCCAGAGATTATTCAGAAGCTTCAAGACAAAGCCACT  
GTGCTAACACGAGCGCAAGAAGAGAGGGAAGACTGTGCTGAGGAGCTGGTGAAGCCAGAAGAGCTCAGCAAA  
TACCGGCAGGTGGCATCCACGTGGGGTTCACAGTGCCAGCATTCTGGGATCCTGGCCCTGGACCTCTGCCCG  
TCCGACACCAACAAGATCCTCACTGGTGGGGCGGATAAAAATGTGTTGTGTTTGACAAAAGTTCTGAACAAATC  
CTGGCTACCTTCAAAGGCCATACCAAGAAGGTCAACAGCGTGGTGTTCACCTTCCCAGGACCTGGTGTCTTCT  
GCTTCCCCCGATGCCACTATCAGGATTTGGTCCGTCCCCAATGCCCTCTTGTGTACAGGTGGTTCCGGGCCCATGAG  
AGTGCTGTGACAGGCCTCAGCCTTCATGCCACTGGCGACTATCTCCTGAGCTCCTCCGATGATCAGTACTGGGCT  
TTCTCTGACATCCAGACAGGGCGTGTGCTCACCAGGTGACAGATGAGACCTCCGGCTGCTCTCTCACCTGTGCA  
CAGTTCCACCTGACGGACTCATCTTTGGAACAGGAACCATGGACTCTCAGATCAAGATCTGGGACTTGAAGGAA  
CGTACTAATGTGGCCAACTTCCCTGGCCACTCGGGCCCCATCACTAGCATCGCCTTCTCTGAGAATGGTTACTAC  
CTGGCTACAGCGGCTGATGACTCCTCTGTCAAGCTCTGGGATCTGCGCAAGCTTAAGAACTTTAAGACTTTGCAG  
CTGGATAACAACCTTTGAGGTAAAGTCACTGATCTTTGACCAGAGTGGTACCTACCTGGCTCTTGGGGGCACGGAT  
GTCCAGATCTACATCTGCAACAATGGACGGAGATTCTTCACTTTACAGAGCACAGTGGCCTGACCACAGGGGTG  
GCCTTCGGGCATCACGCCAAGTTCATCGCTTCAACAGGCATGGACAGAAGCCTCAAGTTCTACAGCCTGTAGGCC  
CTGGCCCTTCTGATGGAAGCTGGGCCTCATCTCAGTAGAGGGGTAGAATTAGGGTTTGGGGGGGGGTGGGGGGA  
ATCTATGGGGGGAGGGGGCTCTGTGGGGTGGGACATTACATCATTTCACTCTGGTCTGAGTGGTGGCCTGAGAA  
CCATGGTGGCATGGACCACCTCATCCATGCAACTCCAGGCCCCATGGGAACGGATGTGGAAGGAAGAACTGTCA  
CCCTCTTAAGCCCCAGGGTCGGAGCCCAGGGCCTCTCCCTTCTGTCGTTCAATGGACGTGGTGGTGGCTGTTCC  
ACACCCATTTTGTGAGTTCTGTGAGACAGGAGAGGCTGAGCCAAGGGAAGTGTGAAGGGGATGGGCAGGAGG  
GCTTGTGCAGGGTTTTGTAAGCAGTGATCTAGTTTCATTAAGGGAAGGAAACAATAACCATAACCAC

3492/6881  
**FIGURE 3221**

MSLICISISNEVPEHPCVSPVSNHVEYERRLIEKYIAENGTDPINNQPLSEEQQLIDIKVAHPIRPKPPSATSIPAIL  
KALQDEWDAVMLHSFTLRQQLQTTTQELSHALYQHDAACRVIAARLTKEVTAAREALATLKPQAGLIVPQAVPSSQ  
PSVVGAGEPMDLGELVGMTPEIIQKLQDKATVLTTERKKRGKTVPEELVKPEELSKYRQVASHVGLHSASIPGIL  
ALDLCPSDTNKILTGADKNVVFDDKSSEQILATLKGHTKKVTSVVFHPSQDLVFSASPDATIRIWSVPNASCVO  
VVRAHESAVTGLSLHATGDYLLSSDDQYWAFSDIQTGRVLTKVTDETSGCSLTCAQFHPDGLIFGTGTMDSQIK  
IWDLKERTNVANFPGHSGPITSIAFSENGYYLATAADDSSVKLWDLRKLKNFKTLQLDNNFEVKSLIFDQSGTYL  
ALGGTDVQIYICKQWTEILHFTESGLTTGVAFGHHAKFIASGMDRSLKFYSL

3493/6881

## FIGURE 3222

ATTGCTCTGGGAATTGCAGCCGCGGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGGACCCAGCGGGCCAGGTGGG  
GACGGCGCGGAGCGGGTGCGGGAGATGCCGTGCGGGACTGGGGCCACCTGAGCCGCCCGCCTCGTCCCCGCCTTC  
TGTGGGAAGGATGTGCGCGCGGATGGCCGGTCGCACAACAGCGGGCCCTCGGGGGCCCTACGGCCCTTGCTCTG  
CCTCCTGGTGGCCCTCGCCCTGGACGTCGTGAGAGTGGACTGTGGCCAGGCTCCCCTGGACCTGTCTACCTGCA  
TGTGACAGCCGCCGCCAGCCAGCCACACTCTGGACTGCCAAGCTGGACCGCTTCAAGGGCTCCAGGCACCA  
CACCACCCTCATCACCTGCCACCGTGTGGGCTCACAGAGCCAGATTCCAGCAGTCCCCCTGAACTGTCTGAGTT  
CCTATGGGTGGACTTTGTGGTGGAGAATAGCACTGGTGGGGGCGTAGCGGTCACTCGCCCCGTACGTGGCAGCT  
GGAGTACCCAGGCCAGGCCCTGAAGCAGAGAAGGACAAAATGGTGTGGGAAATCCTGGTGTCTGAGCGGGACAT  
CAGAGCCCTTATCCCACTGGCCAAGGCTGAGGAGCTGGTGAATACAGCACCCTGACTGGAGTGCCCCAGCATGT  
CCCCGTGCGCCTTGTCACTGTGGACGGCGGGGGGGCCTTGGTGGAGGTGACAGAGCATGTGCGCTGCGAGTCTGC  
CAACACACAGGTCTGCAGGTGTCTGAGGCCTGTGATGCGGTGTTCTGTTGGTGGCAAGGAGAGCCGGGGCGCCCCG  
GGGGGTGCGAGTGGACTTCTGGTGGCGCGGGCTCCGCGCCTCGCTGCGGGTGACCGTGTGGGCCCCCTGCTACC  
GCTGCGTATCGAGCTACCGACACCACCTCGAGCAGGTCCGCGGCTGGAGGGTACCTGGCCCTGCTGAAGGGCC  
TGCGGAACCCGCTGCAGAGGCGTCGGATGAGGCCGAGCGGCGCGCCCGTGGCTGCCACCTGCAGTACCAGCGGGC  
CGGTGTGCGCTTCTCGCCCCCTTCGCGGCCCCACCCGCTGGACGGCGGGCGCGCCCTCACGCACCTGCTTGGCCC  
CGACTGGCTGCTAGACGTGTCCCACCTCGTGGCGCCACACGCCCGCTGCTGGACTCGCGTGTAGCCTCTCTGGA  
GGGTGGCCGTGTCTGTGGTGGGCGGGAGCCCGGTGTACCTCCATTGAGGTGCGTTCCCCACTGTCTGACTCCAT  
CCTGGGGGAGCAGGCCTGGCTGTGACGGACGACAAGGTCTCAGTGTGGAGCTGAGGGTGCAGCCAGTGATGGG  
CATCTCGCTGACCTTGAGCCGGGGCACTGCCCCACCCGGGGAGGTACAGCTACGTGCTGGGCACAGTCAGCCCT  
TCCCGCCCCAAAGCAGGAGGTGGCCCTCTCCCTATGGCTGTCTTCTCTGATCACACTGTGGCCCCAGCTGAGCT  
CTACGACCGCCGTGACCTGGGACTGTCCGTCTCAGCCGAGGAGCCTGGTGGCATCCTGCCAGCTGAGGAGCAGGG  
TGCCAGCTCGGGGTGGTGGTGTGAGTGGGGCAGGCGCCGAGGGGCTGCCGCTGCATGTGGCTCTGCACCCGCCCGA  
GCCCTGCCCGCGGGGCGCCACCGTGTGCCCTCTGGCCTCTGGCACCGCTGGCTGGGGCTGCCCCCTGCCTCCAC  
TCCAGCCCCTGCTCTCCCATCCAGCCCTGCTTGGAGCCCACCAGCCACAGAAGCCACCATGGGTGGTAAACGGCA  
GGTGGCAGGCAGTGTGCGGGGCAACACAGGTGTGAGGGGCAAGTTTGAGCGGGCAGAGGAGGAGGCCAGGAAGGA  
GGAGACCGAAGCCAGGGAGGAGGAGGAGGAAGAGGAGGAGGAGATGGTCCCTGCCCTCAGCATGTCACTGAGCT  
AGAGCTGGGCATGTACGCCCTGCTGGGAGTCTTCTGCGTGGCCATCTTCACTTCTTGGTCAATGGTGTGGTCTT  
CGTCTGCGCTATCAGCGCAAAGAACCTCCCGACAGTGCCACTGACCCACCTCCCCCAGCCCCACAACCTGGGT  
CTGGCTGGGCACTGACCAGGAGGAACAGAGCCGAGCTGGACCGGCACTCCCTGGCCCGCCCAAGGGGGAGGG  
GAGCTGCCCTGTGAGAGTGGGGGAGGAGGGGAGGCCCTACCCTGGCCCTGGCCCTCTGGGGGACACCAG  
CTCCTCAAGCACCCCTGGCCCGAAAGGAGGCTGGGGGGCGGCGGAAGCGAGTAGAGTTGTGACATTTGCGCCAGC  
CCCTCCAGCCAGTCACCTGAGGAGCCTGTAGGGGCCCTGCTGTGCAGTCCATCCTTGTGGCAGGCGAGGAGGA  
CATCCGCTGGGTGTGTGAGGACATGGGGCTGAAGGACCCTGAGGAGCTTCGCAACTACATGGAGAGGATCCGGGG  
CAGCTCCTGACCCTCCACAGCCACCTGGTCAGCCACCAGCTGGGGCAACGAGGGTGGAGGTCCCACTGAGCCTCT  
CGCTGCCCCCGCCACTCGTCTGGTGTGTTGTGATCCAAGTCCCTGCCTGGTCCCCCACAAGGACTCCCATCCA  
GGCCCCCTCTGCCCTGCCCTTGTGATGGACCATGGTCTGAGGAAGGGCTCATGCCCTTATTTATGGGAACCA  
TTTCATTCTAACAGAATAAACCGAGAAGGAAACCAG

3494/6881  
FIGURE 3223A

CAGCGGCAGTGGAGTTCGCTGCGCGCTGTTGGGGGCCACCTGTCTTTTCGCTTGTGTCCCTCTTTCTAGTGTGCG  
GCTCGAGTCCCGACGGGCGCTCCAAGCCTCGACATGTCTGACAACTACGTGGTAACGGCCCAAGAGCCACCGC  
CGTGAACGGCTGCGTGACCGGACACTTTACTTCGGCCGAAGACTTAAACCTGTTGATTGCCAAAAACACGAGATT  
AGAGATCTATGTGGTCACCGCCGAGGGGCTTCGGCCCGTCAAAGAGGTGGGCATGTATGGGAAGATTGCGGTCAT  
GGAGCTTTTCAGGCCCCAAGGGGAGAGCAAGGACCTGCTGTTTATCTTGACAGCGAAGTACAATGCCGTGCATCCT  
GGAGTATAAACAGAGTGGCGAGAGCATTGACATCATTACGCGAGCCCATGGCAATGTCCAGGACCGCATTGGCCG  
CCCCTCAGAGACCGGCATTATTGGCATCATTGACCCTGAGTGCCGGATGATTGGCCTGCGTCTCTATGATGGCCT  
TTTCAAGGTTATTCCACTAGATCGCGATAATAAAGAACTCAAGGCCTTCAACATCCGCTGGAGGAGCTGCATGT  
CATTGATGTCAAGTTCCTATATGGTTGCCAAGCACCTACTATTTGCTTTGTCTACCAGGACCTCAGGGGCGGCA  
CGTAAAAACCTATGAGGTGTCTCTCCGAGAAAAAGGAATTCAATAAGGGCCCTTGGAACAGGAAAATGTCAAGC  
TGAAGCTTCCATGGTGATCGCAGTCCAGAGCCCTTTGGGGGGGCCATCATCATTGGACAGGAGTCAATCACCTA  
TCACAATGGTGACAAATACCTGGCTATTGCCCCCTCTATCATCAAGCAAAGCACGATTGTGTGCCACAATCGAGT  
GGACCTAATGGCTCAAGATACCTGCTGGGAGACATGGAAGGCCGGCTCTTCATGCTGCTTTTGGAGAAGGAGGA  
ACAGATGGATGGCACCCTCACTCTCAAGGATCTCCGTGTAGAACTCCTTGGAGAGACCTCTATTGCTGAGTGCTT  
GACATACCTTGATAATGGTGTGTGTTTGTGCGGTCTGCGCTGGGTGACTCCAGCTTGTGAAGCTCAACGTTGA  
CAGTAATGAACAAGGCTCCTATGTAGTGGCCATGGAACCTTTACCAACTTAGGACCCATTGTGATATGTGCGT  
GGTGGACCTGGAGAGGCAGGGGCGAGGGCAGCTGGTCACTTGTCTGCGGCTTTCAAGGAAGGTTCTTTGCGGAT  
CATCCGGAATGGAATTGGAATCCACGAGCATGCCAGCATTGACTTACCAGGCATCAAAGGATTATGGCCACTGCG  
GTCTGACCCTAATCGTGAGACTGATGACACTTTGGTGTCTCTTTTGTGGGCCAGACAAGATTCTCATGTTAAA  
TGGAGAGGAGGTAGAAGAAACCGAACTGATGGGTTTCGTGGATGATCAGCAGACTTTCTTCTGTGGCAACGTGGC  
TCATCAGCAGCTTATCCAGATCACTTCAGCATCGGTGAGGTGGTCTCTCAAGAACCCTAAGCTCTGGTCACTGAA  
TGGAAGGAGCCTCAGGCCAAGAACATCAGTGTGGCCTCCTGCAATAGCAGCCAGGTGGTGGTGGCTGTAGGCAGG  
GCCCTCTACTATCTGCAGATCCATCCTCAGGAGCTCCGGCAGATCAGCCACACAGAGATGGAACATGAAGTGGCT  
TGCTTGGACATCACCCATTAGGAGACAGCAATGGACTGTCCCCTCTTTGTGCCATTGGCCTCTGGACGGACATC  
TCGGCTCGTATCTTGAAGTTGCCCTCTTTGAACTACTGCACAAGGAGATGCTGGGTGGAGAGATCATTCTCGC  
TCCATCCTGATGACCACCTTTGAGAGTAGCCATTACCTCCTTTGTGCCTTGGGAGATGGAGCGCTTTTCTACTTT  
GGGCTCAACATTGAGACAGGTCTGTTGAGCGACCGTAAGAAGGTGACTTTGGGCACCCAGCCACCGTATTGAGG  
ACTTTTCGTTCTCTTCTACCACCAACGCTTTTGCTTGTCTGACCGCCCCACTGTCTATCTATAGCAGCAACCAC  
AAATTGGTCTTCTCAATGTCAACCTCAAGGAAGTGAATACATGTGTCCCTCAATTAGATGGCTATCCTGAC  
AGCCTGGCGCTGGCCACAATAGCACCCCTCACCATTGGCACCATCGATGAGATCCAGAAGCTGCACATTGCGACA  
GTTCCCTCTATGAGTCTCCAAGGAAGATCTGCTACCAGGAAGTGTCCAGTGTTCGGGGTCTCTCCAGCCGC  
ATTGAAGTCCAAGACACGAGTGGGGGCACGACAGCCTTGAGGCCAGCGCTAGCACCCAGGCTCTGTCCAGCAGT  
GTAAGTCCAGCAAGCTGTCTCCAGCAGCACTGTCTCTCATGAGACCTCCTTTGGAGAAGAGGTGGAGGTGCAC  
AACCTACTTATCATTGACCAACACACCTTTGAAGTGCTTCATGCCCACAGTTTCTGCAGAATGAATATGCCCTC  
AGTCTGGTTTCTGCAAGCTGGGCAAAGACCCCAACACTTACTTCATTGTGGGCACAGCAATGGTGTATCCTGAA  
GAGGCAGAGCCCAAGCAGGGTCGCATTGTGGTCTTTTCAGTATTCGGATGGAAACTACAGACTGTGGCTGAAAAG  
GAAGTGAAAGGGGCGGTGACTCTATGGTGAATTTAACGGGAAGCTGTTAGCCAGCATCAATAGCACGGTGGCG  
CTCTATGAGTGGACAACAGAGAAGGAGCTGCGCACTGAGTGCAACCACTACAACAACATCATGGCCCTCTACCTG  
AAGACCAAGGGCGACTTCATCCTGGTGGGCGACCTTATGCGCTCAGTGTCTGCTTGCCTACAAGCCCATGGAA  
GGAACTTTGAAGAGATTGCTCGAGACTTTAATCCCAACTGGATGAGTGTCTGTGAAATCTTGGATGATGACAA  
TTTCTGGGGGCTGAAAATGCCCTTTAACTTGTGTGTCAAAGGATAGCGCTGCCACCACTGACGAGGAGCGG  
CAGACCTCCAGGAGGTTGGTCTTTTCCACCTGGGCGAGTTTGTCAATGTCTTTTGCCACGGCTCTCTGGTAATG  
CAGAATCTGGGTGAGACTTCCACCCCAACAAAGGCTCGGTGTCTTCCGGCACGGTCAACGGCATGATAGGGCTG  
GTGACCTCACTGTGAGAGAGCTGGTACAACCTCCTGTGGACATGCAGAATCGACTCAATAAAGTCAATAAAGT  
GTGGGAAGATCGAGCACTCCTTCTGGAGATCCTTTCACACCGAGCGGAAGACAGAACCCAGCCACAGGTTTCATC  
GACGGTGAATTGATTGAGAGTTTCTGGATATTAGCCGCCCCAAGATGCAGGAGGTGGTGGCAACCTACAGTAT  
GACGATGGCAGCGGTATGAAGCGAGAGGCCACTGCAGACGACCTCATCAAGGTTGTGGAGGAGCTAATCGGATC  
CATTAGCCAAGGGCAGGGGGCCCTTTGCTGACCCTCCCCAAAGGCTTTGCCCTGCTGCCCTCCCCCTCCTCTCC

3495/6881  
**FIGURE 3223B**

ACCATCGTCTTCTTGGCCATGGGAGGCCTTTCCCTAAGCCAGCTGCCCCCAGAGCCACAGTTCCCCTATGTGGAA  
GTGGGGCGGGCTTCATAGAGACTTGGGAATGAGCTGAAGGTGAAACATTTCTCCCTGGATTTTACCAGTCTCA  
CATGATTCCAGCCATCACCTTAGACCACCAAGCCTTGATTGGTGTGTCAGTTGTCCTCCTCCGGGGAAGGATT  
TTGCAGTTCTTGGCTGAAAGGAAGCTGTGCGTGTGTGTGTGTGTATGTGTGTGTGTGTATGTGTATCTCACACT  
CATGCATTGTCTCTTTTTATTAGATTGGCAGTGTAGGGAGTTGTGGGTAGTGGGGAAGAGGGTTAGGAGGGTT  
TCATTGTCTGTGAAGTGAGACCTTCCTTTTACTTTTCTTCTATTGCCTCTGAGAGCATCAGGCCTAGAGGCCTGA  
CTGCCAAGCCATGGGTAGCCTGGGTGTAAAACCTGGAGATGGTGGATGATCCCCACGCCACAGCCCTTTGTCTC  
TGCAAACCTGCCTTCTTCGGAAAGAAGAAGGTGGGAGGATGTGAATTGTTAGTTTCTGAGTTTACCAAATAAAGT  
AGAATATAAGAAG

3496/6881  
**FIGURE 3224**

GCCTGCAACGTGTCTCTGGGGCGGAGGCAGCGGCAGTGGAGTTCGCTGCGCGCTGTTGGGGGCCACCTGTCTTTT  
CGCTTGTGTCCCTCTTTCTAGTGTGCGGCTCGAGTCCCGACGGGCGCTCCAAGCCTCGACATGTCGTACAATA  
CGTGGAACGGCCCAGAAGCCCACCGCCGTGAACGGCTGCGTGACCGGACACTTTACTTCGGCCGAAGACTTAAA  
CCTGTTGATTGCCAAAACACGAGATTAGAGATCTATGTGGTCACCGCCGAGGGGCTTCGGCCCGTCAAAGAGGT  
GGGCATGTAIGGGAAGATTGCGGTCATGGAGCTTTTCAGGCCCAAGGGGGAGAGCAAGGACCTGCTGTTTATCTT  
GACAGCGAAGTACAATGCCTGCATCCTGGAGTATAAACAGAGTGGCGAGAGCATTGACATCATTACGCGAGCCCA  
TGGCAATGTCCAGGACCGCATTGGCCGCCCCTCATAGACCGGCATTATTGGCATCATGACCCTGAGTGCCGGAT  
GATTGGCCTGCGTCTCTATGATGGCCTTTTCAAGGTTATTCCACTAGATCGCGATAATAAAGAACTCAAGGCCTT  
CAACATCCGCCTGGAGGAGCTGCATGTCATTGATGTCAAGTTCCTATATGGTTGCCAAGCACCTACTATTGCTT  
TGTCTACCAGG

3497/6881  
**FIGURE 3225**

AGCAGCTCAGTGCAACGGTGTGAACTCAGCCTGTTTCAGAGCCTCCACACCATGACCTCCAAGAAGCTGGTGAAC  
TCGGTGGCTGGCTGTGCTGATGACGCTCTTGCTGGCCTGGTGGCCTGCAACCCCAACCTGCAGCTCCTGCAGGGC  
CACCGCGTGGCCCTCCGTTCTGACCTGGACAGCCTCAAGGGCCGGGTGGCACTGCTGTGGGTGGGGGCTCTGGC  
CATGAGCCTGCCATGCTGGTTTCATAGGGAAGGGGATGCTGACTGGGGTCATCGCGGGAGCTGTGTTCACTCC  
CCGGCAGTGGGCAGCATCCTGGCAGCCATCAGGCGGTGGCCAGGCCGGCACAGTGGGGACGCTCCTTATCGTG  
AAGAACTACACTGGGGATCGGCTCAACTTCGGCCTGGCCCGGAGCAGGCCCGGGCTGAAGGCATCCCGGTGGAG  
ATGGTGGTGATTGGGGACGACAGCGCCTTCACTGTCTGAAGAAGCAGGCCGGCGGGGGCTGTGCGGCACGGTG  
CTTATACACAAGGTGGCAGGTGCTCTGGCTGAGGCTGGTGTGGGGCTGGAGGAGATCGCAAAGCAGGTGAACGTG  
GTCGCCAAGGCCATGGGTACCTGGGGGTGAGCTTATCCTCCTGCAGCGTCCCTGGTTCCAAACCCACCTTCGAG  
CTCTCAGCCGACGAGGTGGAGCTGGGCCTGGGGATCCACGGGGAAGCTGGTGTGCGCCGGATAAAGATGGCAACC  
GCCGATGAGATTGTGAACTCATGCTCGACCACATGACAAACACCACCAACGCGTCCCATGTGCCTGTGCAGCCC  
GGCTCCTCAGTTGTGATGATGGTCAACAACCTGGGTGGCCTGTCAATTCCTGGAACGGGCATCATAGCCGACGCT  
ACCGTCCGCTCCCTGGAGGGCCGCGGGGTGAAGATTGCCCGTGGCCTGGTGGGCACCTTCATGTGCACTGGAG  
ATGCTGGCATTCTCTCACCCTCCTGCTGGTGGATGAGCCTCTCCTGAAACTGATAGATGCTGAAACCACTGCA  
GCAGCCTGGCCTAACGTGGCTGCAGTCTCCATTACTGGGCGGAAGCGGAGCCGGGTAGCCCCTGCCGAGCCCCAG  
GAGGCCCCTGATTCCACTGCTGCAGGAGGCTCAGCCTCGAAGCGGATGGCGCTGGTGTGGAACGGGTGTGCAGC  
ACTCTCCTGGGCCTGGAGGAACACCTGAATGCCCTGGACCGGGCTGCTGGTGACGGCGACTGTGGCACCACCCAC  
AGCCGTGCGGCCAGAGCAATCCAGGAGTGGCTGAAGGAGGGCCACCCCTGCCAGCCCTGCCAGCTGCTCTCC  
AAGTTGTCTGTCTGCTCCTGGAGAAGATGGGAGGCTCATCTGGGGCGCTCTATGGCCTGTTCTGACTGCGGCT  
GCACAGCCCCTGAAGGCCAAGACCAGCCTCCCAGCCTGGTCTGCTGCCATGGATGCCGGCCTGGAAGCCATGCAG  
AAGTATGGCAAGGCTGCTCCAGGGGACAGGACTATGCTGGATTCTCTGTGGGCAGCGGGGCAGGAGCTCCAAGCC  
TGGAAGAGCCCAGGAGCTGATCTGTTACAAGTCCTGACCAAGCAGTCAAGAGTGCCGAAGCTGCAGCCGAGGCC  
ACCAAGAATATGGAAGCTGGAGCCGGAAGAGCCAGTTATATCAGCTCAGCACGGCTGGAGCAGCCAGACCCCGG  
GCGGTGGCAGCTGCTGCCATCCTCCGGGCCATCTTGAGGTCTTGAGAGCTAGGGTGTGTGACTGCCTCCCTTG  
GCCTCAGCTCCTCTCAGTGTGCTGAGGTGGCCTTTGTCACTTCCTTCTGCCTTCCAACCCCTACCTTCCCC  
GGCCTGGCCCCATTGGCCACCCTCTAAGTTGAGCAGGAAATCCTCCACCAAGCTTCCAGAACTACAGACAGCAC  
CCAGAGTGAGCTGGAGTGGGTCCCCATGCCTCTCCAGCATGCCCTTTCCCTTTGCAGGAGGGTGGAGTCCCTGGG  
TCATGCCCTCCCCTGCCAGCTCTGGGCTTCAGAGATAAGGCATTTTCTTGTGCAGCCTTTACCTGGCAATCCTA  
ATTTGGTTTTTAAGACTCCCTGTGAAATGCTTTCCGCACCTTAACCCAGTGAGCGTGAAAAAGAAAGTTAATAAA  
CTATAATACATGGAAGCAAGAAAAA



3498/6881  
**FIGURE 3226**

MTSKKLVNSVAGCADDALAGLVACNPNLQLLQGHRVALRSDLSLKGRVALLSGGGSGHEPAHAGFIGKMLTGV  
IAGAVFTSPAVGSILAAIRAVAQAGTVGTLLIVKNYTGDRLNFGGLAREQARAEGIPVEMVVGDDSAFTVLKKAG  
RRGLCGTVLIHKVAGALAEAGVGLEEIAKQVNVVAKAMGTLGVSLSSCSVPGSKPTFELSADLEVELGLGIHGEAG  
VRRIKMATADEIVKLMLDHMTNTTNASHVPVQPGSSVMMVNNLGGLSFLELGIADATVRSLEGRGVKIARALV  
GTFMSALEMPGISLTLLLVDEPLLKLIDAETTAAWPNVAAVSITGRKRSRVAPAEPQEAPDSTAAGGSASKRMA  
LVLERVCSTLLGLEEHLNALDRAAGDGDGCGTTHSRAARAIQEWLKEGPPASPQALLSKLSVLLEKMGSSGAL  
YGLFLTAAQPLKAKTSLPAWSAAMDAGLEAMQKYGKAAPGDRTMLDSLWAAGQELQAWKSPGADLLQVLTKAVK  
SAEAAAEEATKNMEAGAGRASYISSARLEQDPGAVAAAAILRAILEVLQS

3499/6881  
**FIGURE 3227**

AGTCTGGCCGCCATGTTGGAGCTTTCGCTGTTTCGGGGCCCGGCCTGCTCCGGGCCCTCCCAGCGTCGCCGCTAGC  
TGACTTAGGGCTCCCGCCACACTGCGCACGGCCTTGCTGAGGGCCGGCTCGTAGTGGGAGGCTTCGCGTTCACC  
TGAACATTTCCGCCTCCTCTGGATGGGGGATGAGAGCGGGGCTGATGCATCGCAGCAGTCTGGACCCTGACTT  
CGGACTTGGAGAAGAAACGCCGAGGAGGAACGGGAGTTAGGGGGTTAGCAGCTTGGCGCGCTGGGAGCCGGCCAC  
CCCTGGTCTCCGGACTTCACTTCCCAGGAGGCCTCGCGCGGACTGGAAGTGCTGCGAGCCTATAAGAAGGCGAG  
GCGGCACCCGCCGCTCTGCTCTGGGGCGGCATTGCCAGCCGGCTGTAGGCATTAGGGCAGTGTCTTCTGCATCT  
CCTAGGAACCTCGGGAGCGGCAGCTCCGGCGCCTGGTAGCGAGAGGCGGGTTCCGGAGATCCCGGCCTCACTTCG  
TCCCACTGTGGTTAGGGGTGAGTCTGCAAATGTTAAGTGATTGCTCAAGGTGCCCATTTTCGAGGAATTGGAG  
CCCAGGCCAGTTCTCTGAGCCTATCATTAGGGCTAAAGGAGTGCGTGATCAGAATGGTGTCTGGACGGTTCTACT  
TGTCCTGCCGTGCTGCTGGGGTCCCTGGGCTCTATGTGCATCCTCTTCACTATCTACTGGATGCAGTACTGGCGTG  
GTGGCTTTGCCTGGAATGGCAGCATCTACATGTTCAACTGGCACCCAGTGCTTATGGTTGCTGGCATGGTGGTAT  
TCTATGGAGGTGCGTCACTGGTGTACCGCCTGCCCCAGTCGTGGGTGGGGCCAACTGCCCTGGAAACTCCTCC  
ATGCAGCGCTGCACCTGATGGCCTTCGTCTCACTGTTGTGGGGCTGGTTGCTGTCTTTACGTTTCACAACCATG  
GAAGGACTGCCAACCTCTACTCCCTTCACAGCTGGCTGGGCATCACCAGTGTCTTCTCTTCGCCTGCCAGTGGT  
TCCTGGGCTTTGCTGTCTTCTCTGCCCCTGGGCGTCCATGTGGCTGCGCAGCCTCCTAAACCTATCCACGTCT  
TTTTTGAGCCGCCATCCTCTCTCTGTCCATCGCATCCGTCAATTCGGGCATTAATGAGAAGCTTTTCTTCAGTT  
TGAAAAACACCACAGGCCATACCACAGCCTGCCCAGTGAGGCGGTCTTTGCCAACAGCACCGGGATGCTGGTGG  
TGGCCTTTGGGCTGCTGGTGTCTACATCCTTCTGGCTTCATCTTGAAGCGCCCAGAGCCGGGGATCCTGACCG  
ACAGACAGCTGCTGCTACAGCTGAGGCCTGGATCCCGGCCTTTCCCTGTGACTTACGTGTCTGTACCCGGCAGGC  
AGCCCTACAAATCCTGGTGACCTGCTCTCCCAAGAACAGAGCCTGTCCCAGATGTCCCAGTAGCGATGAGTAAC  
AGAGGTGGCTGTGGACTTCCTCTACTTCTCCTTGCTGGATCAGGGCCTTCTGCCTCCCGCTGGGCAGGTCTGGC  
CTTGCTCTCTTGGCAGGGCCCCAGCCCCTCTGACCACTCTGCAGCTCACCATGCAGCTGATGCCAAAGTTGTGGT  
GTCCAGTGTGCAGCAGCCCTGGGAGCCACTGCCACCTTCAGAGGGGTTCCTTGCTGAGACCCACATTGCTTCACC  
TGGCCCCACCATGGCTGCTTGCCCTGGCCCAACCTAGCGTTCTGTGCCATGCTAGAGCTTGAGCTGTTGCTCTTCT  
TCAGGGGAGGAAATAGGGTGG

3500/6881  
**FIGURE 3228A**

AAAGGGCCAGAGGTAGACATTGAAGGTCTGAAGGGAAGCTCAAAGGTCCCAAGTTTAAAGATGCCTGATGTACAT  
TTCAAAAAGCCCACAAATCTCCATGAGTGACATTGATTTGAATTTGAAAGGACCTAAGATAAAAAGGAGATATGGAC  
ATTTCCTGTTCTAAACTGGAGGGAGATCTGAAAGGTCCCAAAGTGGATGTCAAAGGCCCTAAAGTGGGCATTGAC  
ACTCTGATATTGACATTCATGGTCCAGAAGGGAAGCTGAAGGGCCCCAAATTTAAAATGCCTGACTTACACCTC  
AAGGCACCGAAGATCTCTATGCCTGAAGTTGACCTGAATCTGAAAGGTCCAAAGGTGAAGGGCGACATGGACATT  
TCTCTGCCCAAAGTGAAGGGCGACCTCAAGGGCCCCGAAGTTGACATCAGGGACCCCAAAGTGGACATTGATGTC  
CCAGATGTGGACGTTCAAGGCCCAGACTGGCACCTAAAAATGCCCAAAGTGAAAATGCCCAAAGTTCAGCATGCCT  
GGCTTCAAAGGAGAGGGGCCAGATGTGGATGTGAACCTGCCCAAAGGTGACATTGATGTCTCAGGACCCCAAAGTG  
GACGTTGATGTTCTGATGTGAATATCGAAGGTCCAGATGCGAAACTAAAGGGCCCCAAGTTCAAGATGCCTGAG  
ATGAGCATCAAAGCCCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCCAAAGTGAAGGGCGAT  
GTGGATGTTACCCCTTCTAAAGTGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGAC  
ATCAACACCCCTGATGTGGATGTTTCATGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAATTC  
AGCATGCCTGGCTTCAAAGGAGAAGGTCCAGATGTGGATGTGAGCCTGCCCAAAGGCCGACATCGATGTCTCGGGA  
CCCCAAGGTGGACGTTGATATTCCAGATGTGAATATCGAAGGTCCAGACGCAAACTGAAGGGCCCCAAGTTCAAG  
ATGCCTGAAATAAATATCAAAGCTCCCAAGATCTCCATACCTGATGTTGACCTGGATTGAAAGGACCCCAAAGTA  
AAAGGAGATTTTGATGTGTCTGTCCCTAAGGTTGAAGGGACTTTGAAAGGCCCAGAAGTAGATCTTAAAGGTCCA  
CGTCTGGATTTTGAAGGCCCTGATGCCAACTCAGTGGCCCATCTTTGAAGATGCCATCGCTGGAGATATCTGCT  
CCTAAAGTAACCTGCTCTGATGTTGATTGTCATCTCAAGGCACCAAAAATTGGATTTTCAGGTCCGAAGTTAGAA  
GGTGGTGAAGTGGACCTCAAGGGACCCCAAAGTTGAAGCTCCAAGCTTAGATGTACACATGGACAGCCAGATATT  
AACATCGAAGGGCCAGATGTTAAAATCCCCAAATTTAAGAAACCCAAGTTTGGATTTGGGGCAAAAAGCCCCAAA  
GCTGACATCAAGTCACCTTCACTGGATGTCACTGTTCTGAGGCAGAGCTGAACCTTGAGACTCCTGAAATTAGT  
GTTGGTGGCAAGGGCAAGAAAAGTAAGTTTAAAATGCCTAAAATTCATATGAGTGGTCTTAAGATTAAGGCCAAA  
AAACAGGGATTTGACCTGAATGTTCTGGGGGTGAAATTGATGCCAGCCTCAAGGCTCCGGATGTAGATGTCAAC  
ATCGCAGGGCCGGATGCTGCACTCAAAGTCGACGTGAAATCGCCCAAAACCAAGAAAACGATGTTTGGAAAAATG  
TACTTCCCAGATGTAGAGTTTGACATTAAATCACCTAAATTTAAGCTGAGGCCCTCTCCCTAGCCCCAACTG  
GAGGGTGAACCTCAGGCACCTGATCTGGAACCTTTCTTTGCCAGCGATTACGTCGAAGGTCTTGACATCAAGGCG  
AAGGCTCCCAAGGTCAAGATGCCAGATGTGGACATCTCAGTGCCAAAAATAGAGGGTGACCTGAAAGGGCCCCAAA  
GTGCAGGCAAACTTGGGTGCACCTGACATCAACATCGAAGGCCTAGATGCTAAAGTCAAAACACCGTCCTTCGGC  
ATTTCTGCCCCCTCAAGTCTCCATCCCTGATGTGAATGTAACCTTGAAAGGACCAAGATAAAGGGTGATGTCCCC  
AGCGTGGGACTGGAAGGACCAGATGTAGATCTGCAAGGTCCAGAAGCAAAAATTAAGTTCCCCAAGTTTCCATG  
CCCAAGATCGGCATCCAGGTGTGAAAATGGAGGGTGGGGGAGCCGAGGTCCATGCCAGCTACCCTCTCTTGAA  
GGAGACTTGAGAGGACCAGATGTTAAGCTCGAAGGGCCGATGTTTCTCTAAAGGGGCCAGGAGTAGACTTGCTT  
TCAGTGAACCTCTCTATGCCAAAAGTCTCTGGGCCTGACCTTGATCTGAACTTGAAAGGACCAAGTTTGAAGGGA  
GACCTGGATGCATCTGTTCCAGCATGAAGGTGCATGCTCCAGGGCTCAACCTCAGTGGTGTGCGGTGGCAAAATG  
CAGGTGGGAGGAGACGGTGTGAAAGTGCCAGGGATCGATGCCACAACAAAGCTTAACGTGGGGGCACCAGATGTG  
ACACTGAGGGGACCAAGCCTGCAGGGAGATCTGGCTGTCTCTGGTGACATCAAATGCCCTAAAGTATCCGTAGGA  
GCTCCTGATCTAAGCTTGGAGGCATCCGAAGGCAGCATTAACCTTCCCAAATGAAGCTGCCCCAATTTGGCATC  
TCTACTCCGGGGTCCGACTTGACGTCAATGCCAAGGGGCCACAGGTTTCTGGCGAACTGAAGGGGGCCAGGTGTG  
GATGTGAACCTGAAAGGGCCTCGGATTTCAAGCACCGAATGTGGACTTAACTTGGAAGGACCAAAAGTGAAAGGG  
AGCCTTGGGGCCACTGGTGAGATCAAAGGCCCCACTGTGCGAGGAGGTCTTCCAGGCATTGGTGTTCAGGCCTA  
GAAGGAAACCTCCAGATGCCTGGAATTAAGTCCTCTGGATGTGATGTGAACCTGCCAGGCGTGAATGTGAAACTC  
CCAACCTGGGCAGATTTCTGGGCCTGAAATCAAAGGTGGTCTGAAAGGTTGAGAAGTAGGTTTCCATGGGGCTGCT  
CCTGATATCAGTGTGAAGGGGCCCTGCTTTAATATGGCATCTCCTGAGTCAGATTTTGGCATCAACTTGAAGGGC  
CCAAAAATCAAAGGAGGTGCGGATGTTTCAAGGGGTGTGAGTGCCCCAGACATCAGCCTTGGTGAAGGGCATTG  
AGTGTTAAAGGTTCCGGGGGTGAGTGAAGGGACCCCAAGTCTCCTCTGCTCTCAACTTGGACACATCTAAGTTT  
GCTGGGGGCTTCAATTTCTCAGGACCAAGGTGGAAGGAGGTGTGAAAGGAGGTGAGATTGGACTCCAGGCTCCT  
GGGCTGAGTGTGTCTGGGCCTCAAGGTCACTTGGAAAGTGATCTGGAAGGTAACATTCCCTAAAATGAAGATC  
CCCAAATTTACCTTCTCTGGCCGTGAGCTGGTTGGCAGAGAAATGGGGGTGGATGTCACTTCCCTAAAGCAGAG

3501/6881  
**FIGURE 3228B**

GCCAGCATCCAAGCTGGTGTGGAGACGGCGAGTGGGAAGAGTCTGAAGTCAAAC TGAAAAAGTCCAAGATCAAA  
ATGCCCCAAGTTTAATTTTCCAAACCTAAAGGGAAAGGTGGTGTCACTGGCTCACCAGAAGCATCAATTTCTGGG  
TCCAAAGGTGACCTGAAAAGTTCAAAGGCCAGCCTGGGCTCTCTGGAAGGAGAGGCAGAGGCCGAAGCCTCTTCA  
CCGAAAGGCAAATTCTCCTTATTTAAAAGTAAGAAGCCACGGCACCGCTCAAATTCATTGATGAAAGAGAG  
TTCTCTGGACCTTCCACCCGACGGGGACGCTGGAGTTTGAAGGTGGGGAAGTGTCTCTGGAAGGTGGGAAAGTT  
AAAGGGAAACACGGGAAGCTGAAATTCGGTACCTTTGGTGGATTGGGGTCAAAGAGCAAAGGTCAATATGAGGTG  
ACTGGGAGCGATGATGAGACAGGCAAGTTACAGGGGAGTGGGGTGTCCCTGGCCTCTAAGAAGTCCCGACTGTCC  
TCCTCTTCTAGCAATGACAGTGGGAATAAGGTTGGCATCCAGCTTCCCGAGGTGGAGCTGTCAGTTTCCACAAAG  
AAAGAGTAGCAGGCCTTTGTATGTGTGTACATATATATATATAAATAACAAACATCAGCCTTGGGTGGTGTGTTCC  
TATATAAACTCCAAAGGGAAACACACCGACTGCCTCAGCAATCATGCAAAGACCTTGCCTGGCCCCGGTGGCAAGC  
GCTGAAAAACCGACCGCCTGTAGGCTCCTGGAACTATACAGATAGGTAAAGAGTTCCAAGTTCGTCC

3502/6881  
**FIGURE 3229**

MPKVKMPKFSMPGFKGEGPDVDVNLPKADIDVSGPKVDVDPDVNIEGPDALKGPKFKMPEMSIKAPKISMPDI  
DLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPKVDINTPDVDVHGPDWHLKMPKVKMPKFSMPGFKGEGPDVD  
VSLPKADIDVSGPKVDVDIPDVNIEGPDALKGPKFKMPEINIKAPKISIPDVLDLKGPKVKGDFDVSVPKVEG  
TLKGPEVDLKGPRLDFEGPDALKSGPSLKMPISAPKVTPADVDLHLKAPKIGFSGPKLEGGEVDLKGPKVEA  
PSLDVHMDSPDINIEGPDVKIPKFKPKFGFGAKSPKADIKSPSLDVTVPKAEELNLETPEISVGGKGKSKFKMP  
KIHMSGPKIAKAKQGFDLNVPGGEIDASLKAPDVDVNIAGPDAALKVDVKSPKTKTKMFGKMYFPDVEFDIKSPK  
FKAEPALPSPKLEGELQAPDLELSLPAIHVEGLDIKAKAPKVKMPDVIDISVPKIEGDLKGPKVQANLGAPDINIE  
GLDAKVKTPSFGISAPQVSIPDVNVNLKGPKIKGDVPSVGLGPDVDLQGPDAKIKFKPKFSMPKIGIPGVKMEGG  
GAEVHAQLPSLEGDLRGPDVKLEGPDSLKGPVGLPSVNLSPKVSGLDLDNLKGPSLKGLDASVPSMKVHA  
PGLNLSGVGGKMQVGGDGVKVPIDATTKLNVGAPDVTLRGPSLQGLAVSGDIKCPKVSAGAPDLSLEASEGSI  
KLPKMKLPQFGISTPGSDLHVNAKGPQVSGELKGPVGVNLKGPRISAPNVDFNLEGPKVKGSLGATGEIKGPTV  
GGGLPGIGVQGLEGNLQMPGIKSSGCDVNLPGVNVKLPTGQISGPEIKGGLKGSEVGFHGAAPDISVKGPAPFNMA  
SPESDFGINLKGPKIKGGADVSGGVSAPDISLGEGLSVKSGGEGWKGPQVSSALNLDTSKFAGGLHFSGPKVEG  
GVKGGQIGLQAPGLSVSGPQGHLESGSGKVTFFPKMKIPKFTFSGRELVGREMGVDVHFPKAEASIQAGAGDGEWE  
ESEVKLKKSKIKMPKFNFSKPKGKGGVTGSPEASISGSKGDLKSSKASLGSLEGEAEAEASSPKGKFSLFKSKKP  
RHRNSNSFSDEREFSGPSTPTGTLEFEGGEVSLEGGKVKGKHGKLKFGTFGGLGSKSKGHYEVTGSDDDETGLQGS  
GVSLASKKSRLSSSSSNDSGNKVGIQLPEVELSVSTKKE

3503/6881  
**FIGURE 3230**

TCCGGAAGGAGGCGAACCCCTGAGGCGGGCCCCGGCAAGCCTTCCCTGCGGCCGGCAGAGCCCAACGACTAGTGGGA  
CTCCGCGGGGGCGGGGTAGCTGGAGCCTGGCTCTGGCCTGGCAGGAGCCGAGCTTGTTCGGAAGAAGCCGAGC  
GGACGGGGGCCAGCCTCAGCGTCCCGGGAGTGAGGCGATAGCTGCGGCCGGCAGACGCGGGGCCGGGATGAACCG  
CGACGGCTGAGGCGAGCGAGGTGCCGGCTGCGCGGGCCCCAGTGAGACTCCCTCGAAGCGGCAGCCACCGTTTCG  
GGGCTTTGCTCGAGCCGAGCCCTGCCCCCGGAGCCTCCCGGACCCCTTTGTGCGGCCGGAGGCGGCGCGGGA  
ACGGCCATGGCGGCCAACATGTACCGGGTGGGAGATTACGTCTATTTTGAGAACTCTCCAGCAATCCTTACCTG  
GTTAGACGGATTGAGGAGCTCAACAAGACTGCAAATGGAAATGTGGAGGCAAAGGTTGTCTGTCTTTTCCGGCGC  
AGGGACATTTCTAGTAGCCTCAACAGCCTGGCTGATAATAATGCCAGGGAGTTTGAAGAGGAATCAAAGCAGCCA  
GGGGTGTCTGAGCAGCAGCGCCATCAACTGAAGCACCAGGGAACTTTTCTTTCTCGGCAATTTGAATCATTACCA  
GCCACCCACATACGGGGGAAATGCAGTGTGACCCCTTGAATGAGACAGATATCTTGAGCCAGTACCTGGAAAAG  
GAGGACTGCTTTTTTACTCACTGGTGTGTGACCCCGTGCAAGACACTTCTCGCTGATCAGGGCGAGATTAGA  
GTTGGTTGCAATAACCAAGCTGAGATCCCAGATCGCCTAGTAGAGGGAGAATCTGATAATCGGAACCAGCAGAAG  
ATGGAGATGAAGGTCTGGGACCCAGACAACCCCTCTACAGACCCGGCAGATCGACCAGTTTCTGTGGTGGCCCGA  
GCTGTGGGAACCTTTGCAAGAGCCCTAGATTGTAGCAGCTCCATTGCGCAGCCAAGCTTGACATGAGTGCAGCT  
GCTGCCTCCCGAGATATCACTCTGTTTACGCCATGGATACCTTGCAAAGGAACGGCTACGACCTGGCTAAGGCC  
ATGTCGACCCCTGGTACCCAGGGAGGCCCGGTGTGTGCGGATGAGATGGAGGAATGGTCAGCCTCAGAGGCC  
ATGCTATTTGAGGAGGCCCTAGAGAAGTATGGGAAGGACTTCAATGATATTCGCCAGGATTTTCTACCCCTGGAAG  
TCACTTGCCAGCATAGTCCAGTTTATTACATGTGAAAACACAGACCCGTATATTCAGCAGAAAAGGTTGAAA  
GCTGCTGAAGCAGACAGCAAACCTGAAACAGGTCTACATTCCCACCTACACTAAGCCAAACCCCTAACCAGATCATT  
TCTGTGGGTTCAAACCTGGCATGAATGGGGCTGGATTCAGAAGGGCCTGACTTGTGAGAGTTGCCACACCACA  
CAGTCTGCTCAGTGGTATGCCTGGGGCCACCTAACATGCAGTGGCGCCTCTGTGCTTCTGTGGATCTACTGG  
AAGAAGTATGGGGGACTGAAGACCCCAACTCAGCTTGAGGGGGCCACTCGGGGCACCAGGAGCCACACTCAAGG  
GGTCATTTATCCAGACCTGAAGCTCAAAGTCTCTCTCCTTACACAACCAGCGCCAACAGGGCCAAGCTACTGGCT  
AAGAACAGACAACTTTCTGCTTCAGACCACAAAGCTGACCCGTCTTGCCAGACGCATGTGCAGGGACCTATTA  
CAGCCAAGGAGGGCCGCCCCGACGGCCTTATGCTCCTATCAATGCCAATGCCATCAAAGCAGAGTGCTCCATTGCA  
CTTCCTAAGGCCGCCAAGACTCCATTGAAGATTACCCCTCTGGTGGCGCTGCCCCCTGGCAACTATCGTCAAAGAT  
CTGGTGGGCCAGGCACCCCTGAAACCAAAAACACCTCGGGGTACCAAGACACCGATCAACAGAAACCAGCTGTCC  
CAGAACCAGGGGACTGGGGGGCATTATGGTGAAACGGGCCTATGAGACTATGGCAGGGGCAGGGGTTCTTTCTCT  
GCCAATGGAAGGCCTCTGGCTTCAGGGATTCTGTTCAAGCTCACAGCCAGCAGCCAAGCGTCAGAACTAAACCCA  
GCTGATGCCCCCAATCCTGTGGTGTGTTGTGGCCACAAAGGATACCAAGGGCCCTACGGAAGGCTCTGACCCATCTG  
GAAATGCGGCGAGCTGCTCGCCGACCCAACTTCCCCCTGAAGGTGAAGCCAACGCTGATTGCAGTGCAGCCCCCT  
GTCCCTCTACCTGCACCCCTCACATCCTGCCAGCACCAATGAGCCTATTGTCTGGAGGACTGAGCACCTGTGGGG  
AAGGGAGGTGGGCTGAGAGGTAGAGGGTGGATGCCAGGGCACCCAAACCTCCCTTCCCTTTCTGTGCGAAGGGA  
GTGAGGAGTGAATTAAGGAAGAGAGCAAGTGAGTGTGTGTCCCTGGAGGGGTTGGGCGCCCTCTGGTGTACAC  
CTCGAGACTTGTCTCATGCCCTCCATGCTTGCCGATGGAGGACAGACTGCAGGAACCTGGCCCCATGTGGGAACCTA  
GCCTGTTTTGGGGGTTAGGACCCACAGATGCTTGGACAGTTTTGGGGGGAGGGTTTTTTAATTTTTTAAAGTT  
TTGCCCTCCCTTTGTGAAAGGGGATGGGGAGGGGAAGAGTAAACAGATAACAGGTGGTGGTACCTGGTGGGGGAG  
GGGGGCGTGCAGTGCATGCTTTTTTTTTTTTTTTTTTTTTTTTCTAATTGGGGGTTTCTTTTCTGTCC  
GGTGTCCGGACTTTCCTAATTGGAGTTTGAGGCCCTAAGCTGGCATCAACCCAGGCCACGCTCGCTCTTTCT  
TCCCTCCCTCCCTCTGCTTTTGTACGCCAGTTCTCAGAAATAAAGATCTTTTGTCCGTTTTTTTAACTCG  
GATTCTGTAATTGGTTCTTATAGTAACAAATAAAAGCTGTTTTCTTCAGCTTCTCCTGG

3504/6881  
**FIGURE 3231**

MAANMYRVGDYVYFENSSSNPYLVRRIEELNKTANGNVEAKVVCIFRRRDISSSLNSLADSNAREFEEESKQPGV  
SEQQRHQLKHRELFSLRQFESLPATHIRGKCSVTLLNETDILSQYLEKEDCFFYSLVFDVPVQKTLLADQGEIRVG  
CKYQAEIPDRLVEGESDNRNQQKMEMKVWDPDNPLTDRQIDQFLVVARAVGTFARALDCSSSIRQPSLHMSAAAA  
SRDITLHFAMDTLQRNGYDLAKAMSTLVPQGGPVLCDMEEWSASEAMLFEAELEKYGKDFNDIRQDFLPWKS  
ASIVQFYMWKTTDRYIQQKRLKAAEADSKLKQVYIPTYTYPNPNIISVGSKPGMNGAGFQKGLTCECHTTQS  
AQWYAWGPPNMQCRLCASCWYWKYGGKLTPTQLEGATRGTTPEHSRGLSRPEAQSLSPYTTSANRAKLLAKN  
RQTFLQTTKLTRLARRMCRDLLQPRRAARRPYAPINANAIAECSIRLPKAAKTPLKIHPVRLPLATIVKDLV  
AQAPLKPKTPRGTKTPINRNQLSQNRGLGGIMVKRAYETMAGAGVPFSANGRPLASGIRSSQPAKRQKLNPA  
APNEPVFVATKDTRALRKALTHLEMRAARRPNLPLKVKPTLIIVRPPVPLPAPSHPASTNEPIVLED

3505/6881  
**FIGURE 3232**

GCAAACCTCTGCACAAGATGGCGGCGGTAGCGGCAGTGGCGGCGCGTAGGAGGCGGTCTTGGGCGTCTTTGGTACT  
GGCTTTTTTAGGGGCTCTGCCTGGGGATTACCCCTTGCTGTGGATAGAAGCAACTTTAAGACCTGTGAAGAGAGTTC  
TTTCTGCAAGCGACAGAGAAGCATACGGCCAGGCCTCTCTCCATACCGAGCCTTGCTGGACTCTCTACAGCTTGG  
TCCTGATTCCCTCACGGTCCATCTGATCCATGAGGTCACCAAGGTGTTGCTGGTGTCTAGAGCTTCAGGGGCTTCA  
AAAGAACATGACTCGGTTTCAAGATTGATGAGCTGGAGCCTCGGCGACCCCGATACCGTGTACCAGATGTTTTGGT  
GGCTGATCCACCAATAGCCCGGCTTTCTGTCTCTGGTCTGTGATGAGAACAGTGTGGAGTTAACCATGGCTGAGGG  
ACCCTACAAGATCATCTTGACAGCACGGCCATTCCGCCTTGACCTACTAGAGGACCGAAGTCTTTTGCTTAGTGT  
CAATGCCCGAGGACTCTTGGAGTTTGAAGCATGAGAGGGCCCTAGGGTCTCTTTCTCGGATAAGGTTAATCTCAC  
GCTTGGTAGCATATGGGATAAGATCAAGAACCTTTTCTCTAGGCAAGGATCAAAAAGACCCAGCTGAGGGCGATGG  
GGCCAGCCTGAGGAAACACCCAGGGATGGCGACAAGCCAGAGGAGACTCAGGGGAAGGCAGAGAAAGATGAGCC  
AGGAGCCTGGGAGGAGACATTCAAACTCACTCTGACAGCAAGCCGTATGGCCCCATGTCTGTGGGTTTGGACTT  
CTCTCTGCCAGGCATGGAGCATGTCTATGGGATCCCTGAGCATGCAGACAACCTGAGGCTGAAGGTCACTGAGGG  
TGGGGAGCCATATCGCCTCTACAATTTGGATGTGTTCCAGTATGAGCTGTACAACCAATGGCCTTGATGGGTCT  
TGTGCTGTGCTCCTGGCACACAACCCCTCATCGGACTTGGGCATCTTCTGGCTCAATGCTGCAGAGACCTGGGT  
TGATATATCTTCCAACACTGCCGGAAGACCCGTGTTGGGAAGATGATGGACTACCTGCAGGGCTCTGGGGAGAC  
CCCACAGACAGATGTTTCGTGGATGTCAGAGACTGGCATCATTGACGTCTTCTGCTGTGGGGCCCTCCATCTC  
TGATGTTTTCCGCAATATGCTAGTCTCACAGGAACCCAGGCGTTGCCCCACCTTCTCCCTCGGCTACCACTA  
GAGCCGTTGGAATACCGGGACGAGGCTGATGTCTGGAAGTGGATCAGGGCTTTGATGATCACAACCTGCCCTG  
TGATGTCTATCTGGCTAGACATTGAACATGCTGATGGCAAGCGGTATTTACCTGGGACCCAGTCGCTTCCCTCA  
GCCCCGACCATGCTTGAGCGCTTGGCTTCTAAGAGGCGGAAGCTGGTGGCCATCGTAGACCCACATCAAGGT  
GGACTCCGGCTACCGAGTTCACGAGGAGCTGCGGAACCTGGGGCTGTATGTTAAACCCGGGATGGCTCTGACTA  
TGAGGGCTGGTGTGGCCAGGCTCAGCTGGTTACCTGACTTCACTAATCCCACGATGAGGGCCTGGTGGGCTAA  
CATGTTTCAGCTATGACAATTATGAGGGCTCAGCTCCCAACCTCTTTGTCTGGAATGACATGAACGAACCATCTGT  
GTTCATGGTCTCTGAGGTACCATGCTCAAGGATGCCAGCATTATGGGGGCTGGGAGCACCGGGATGTGCATAA  
CATCTATGGCCTTTATGTGCACATGGCGACTGCTGATGGGCTGAGACAGCGCTCTGGGGGCATGGAACGCCCTT  
TGTCTGGCCAGGGCCTTCTTCTGCTGGCTCCAGCGCTTTGGAGCCGTGTGGACAGGGGACAACACTGCCGAGTG  
GGACCATTTGAAGATCTCTATTCTTATGTGTCTCAGCTTGGGGCTGGTGGGACTTTCTTCTGTGGGGCGGATGT  
GGGTGGCTTCTTCAAAAACCCAGAGCCAGAGCTGCTTGTGCGCTGGTACCAGATGGGTGCTTACCAGCCATTCTT  
CCGGGCACATGCCCACTTGGACACTGGGCGACGAGAGCCATGGCTGTTACCATCTCAGCACAATGATATAATCCG  
AGATGCCCTTGGGCCAGCGATATTCTTTGCTGCCCTTCTGGTACACCTCTTATATCAGGCCCATCGGGAAGGCAT  
TCCTGTCTATGAGACCCCTGTGGGTGCAGTACCCTCAGGATGTGACTACCTTCAATATAGATGATCAGTACTTGCT  
TGGGGATGCGTTGCTGGTTACCCGTGTATCAGACTCTGGAGCCCATGGTGTCCAGGTCTATCTGCCTGGCCAAGG  
GGAGGTGTGGTATGACATTCAAAGCTACCAGAAGCATCATGGTCCCAGACCCTGTACCTGCCTGTAACCTCTAAG  
CAGTATCCCTGTGTTCCAGCGTGGAGGGACAATCGTGCTCGATGGATGCGAGTGCGGCGGTCTTCAGAATGTAT  
GAAGGATGACCCCATCACTCTCTTTGTTGCACTTAGCCCTCAGGGTACAGCTCAAGGAGAGCTCTTTCTGGATGA  
TGGGCACACGTTCAACTATCAGACTCGCCAAGAGTTTCTGCTGCGTTCGATTCTCATTCTCTGGCAACACCCCTGT  
CTCCAGCTCAGCAGACCCTGAAGGACACTTTGAGACACCAATCTGGATTGAGCGGGTGGTGATAATAGGGGCTGG  
AAAGCCAGCAGCTGTGGTACTCCAGACAAAAGGATCTCCAGAAAGCCGCTGTCTTCCAGCATGACCCTGAGAC  
CTCTGTGTTGGTCTGCGCAAGCCTGGCATCAATGTGGCATCTGATTGGAGTATTACCTGCGATAA



3506/6881  
**FIGURE 3233**

MAAVAAVAARRRRSWASLVLAFLGVCLGITLAVDRSNFKTCEESSFCKRQRSIRPGLSPYRALLDLQLGPDSLT  
VHLIHEVTKVLLVLELQGLQKNMTRFRIDELEPRRPRYRVPDVLVADPP IARLSVSGRDENSVELTMAEGPYKII  
LTARPFRLDLLEDRLSLLSVNARGLLEFEHQRAPRVSFSDKVNLTLSIWDKIKNLF SRQGSKDPAEGDGAQP  
TPRDGDKPEETQGKAEKDEPGAWEEFTKTHSDSKPYGPM SVGLDFSLPGMEHVYGIPEHADNLR LKVTEGGE  
LYNLDFVQYELYNPMALYGSVPVLLAHNP HRDLGIFWLNAETWVDISSNTAGKTLFGKMDYLQGSGETPQTDV  
RWMSETGIIDVFLLLGPSISDVFRQYASLTGTQALPPLFSLGYHQSRWNYRDEADVLEVDQGFDDHNLPCDVIWL  
DIEHADGKRYFTWDP SRFPPQRTMLERLASKRRKLVAIVDPHIKVDSGYRVHEELRNLGLYVKTRDGS DYEGWCW  
PGSAGYPDFTNPTMRAWWANMFSYDNYEGSAPNLFVWNDMNEPSVFNGPEVTMLKDAQHYGGWEHRDVHNIYGLY  
VHMATADGLRQRSGGMERPFV LARAFFAGSQRFGAVWTGDNTAEWDHLKISIPMCLSLGLVGLSFCGADVGGFFK  
NPEPELLVRWYQMGAYQPFFRAHAHLDTGRREPWLLPSQHNDIIRDALGQRYSLLPFWYTLTYQAHREGIPVMRP  
LWVQYPQDVTTFNIDDQYLLGDALLVHPVSDSGAHGVQVYLPQGGEVWYDIQSYQKHHGPQTLYLPVTLSSIPVF  
QRGGTIVPRWMRVRRSSECMKDDPITL FVALSPQGT AQGELFLDDGHTFNYQTRQEFLLRRFSFSGNTLVSSAD  
PEGHFETPIWIERVVIIGAGKPAAVVLQTKGSPE SRLSFQHDPETSVLVLRKPGINVASDWSIHLR

3507/6881  
**FIGURE 3234**

CGCCGCTCGCGCCTCGGGCTCGGCTCGGGCTCCGGGATGTCGCGCTGTGCGACCTCCCGGGGCCCCAGGGCCA  
CCTGGGCCCTGCCCCGGCCACCCACGGTCCCGCGCCTCTCAGTGCTCAGGAGCTGTCCAGGAAATCAAGGCTTTT  
CTGACTGGCGTAGACCCCATTTCTGGGCCACCAACTCTCAGCCCGGGAACATGCTCGCTGTGGTCTTCTCCTGCTC  
CGTTCTTTTGCACCTGCTCGGGCTGCTGTGCTTGACCACTTGAGAGGTGTCTTTGATGAGAGTGTCCGGGCCCCAC  
CTGGCTGCCCTGGATGAAACCCCTGTGGCTGGTCCACCTCACCTCCGTCCACCTCCACCCTCTCATGTCCCTGCT  
GGTGGACCTGGTCTAGAGGATGTGGTTAGGAAGTGCAGCAGGTGCTGTCTGAGTTTATCCGGGCCAACCCAAAG  
GCCTGGGCACCTGTGATTAGTGCATGGTCCATTGACCTCATGGGGCAACTGAGCAGCACGTACTCAGGCCAGCAC  
CAGCGTGTTCACCGCTACTGGCGCTCTTAATGAACTGCTACAGCTGTGGATGGGTTGTAGGGCCACGCGTACA  
TTAATGGACATCTATGTGCAGTGCCTCTCGGCTCTCATTGGTAGCTGCCAGATGCGTGTGTGGATGCCTTGCTG  
GATACCTCTGTTTCAGCATTCTCCACACTTTGACTGGGTTGTGGCACATATTGGCTCCTCTTTTCTGGCACCATC  
ATTTCCCGGGTTCTCTCCTGTGGCCTTAAGGACTTTTGTGTCCATGGTGGGGCTGGAGGTGGAGCTGGCAGTAGT  
GGTGAAGCTCTTCTCAGACCCCTCTACAGACCCCTTCCCTGGATCTCCTGCCATTCTCGCGAGAAACGGGTG  
CCCAAGATTGCCCTCAGTTGTAGGCATCCTAGGTACCTGGCCTCCCGCCACGGAGATAGCATCCGACGGGAGCTC  
CTGCGAATGTTCATGATAGCCTGGCAGGGGGATCTGGAGGCCGAGTGGGGACCCCTCCCTTCAGGCCACGGTT  
CCGTTCTACTGCAGCTGGCAGTCATGTCACCAGCTTTGCTGGGCACTGTCTCTGGAGAGCTTGTGGATTGCCTC  
AAGCCCCAGCTGTGCTGAGCCAGCTGCAGCAACACCTTCAAGGATTCCCCGAGAGGAGCTGGACAACATGTTG  
AACCTGGCTGTGCACCTGGTGGCCAGGCTCTGGGGCAGGTGCCTACCGCTTGTGTCAGTTCTTGTGGACACA  
GCTATGCCTGCTTCGGTCAATTACACCCAGGGCTGGCTGTGCCAGACACCGTGCCTGAGGCTTGTGACCGGCTA  
ATCCAGCTGCTGCTGCTGCACCTGCAAAAACCTGGTTCATCACCGGGGAGGCTCTCTGGGGAAAGGGGTGCTAGGC  
CCGCCCCACCTCCCCGCTTGGTGCCCTTTTTAGATGCGCTCAAAAACCATGTTGGAGAGCTGTGTGGAGAGACG  
TTACGATTGGAACGGAAGCGTTCCTCTGGCAGCACCAGCTCTTGGGCTGCTGTCTGTCTATACCCGGCCTAGC  
TGTGGACCTGAGGCTTGGGCCATCTGCTGAGCCGAGCCGAAGCCCTGAAGAGTTGAGTTTGGCCACCCAGTTA  
TATGCAGGGCTAGTGGTCAGCCTCTCTGGCCTCTGCCCCCTGGCTTTCCGAAGCTGTCTGGCTCGGGTGCATGCA  
GGGACATTACAGCCTCCCTTCACGGCCCCGTTCTGCGCAACTTGGCACTGCTAGTAGGGTGGGAACAGCAGGGT  
GGCGAGGGCCCTGCAGCCCTAGGGGCGCACTTTGGGAATCTGCCTCAGCCCATCTGTCTGACCTGGCTCCTCTC  
CTGCTACATCTGAGGAGGAAGTAGCTGAAGCTGCTGCCTCTCTCTCTGGCCATTTGTCCCTTTCTTCTGAAGCC  
TTATCCCCCTCCAGCTCCTGGGACTGGTAAGGGCTGGGGTGCACCGCTTCTTTGCTCTCTGAGGCTGCATGGA  
CCCCCAGGTGTGGCCTCAGCCTGTGAGCTTCTACCCGCTGTCTCAGACATCCCCAGCTGGGCTCAAGGCTGTC  
CTGCAGCTGCTGGTTGAAGGAGCCTTACATCGAGGCAACACAGAACTGTTTGGTGGGCAAGTAGATGGGGACAAT  
GAGACTCTCTCAGTTGTTTCAGCTTCTTTGGCTTCTGCCTCCCTGTTGGACACTAACCGGAGGCACACTGCAGCT  
GTGCCAGGTCTTGGAGGGATTGGTTCAGTTTTCCATGCTGGAGTCATCGGCCGTGGCTTAAAGCCACCCAAGTTT  
GTCCAGTCACGAAATCAGCAGGAAGTGATCTATAACACCCAGAGCCTCCTCAGCCTCCTGGTTCACTGCTGCAGT  
GCCCCAGGGGGCACTGAATGTGGGAATGCTGGGGGGCACCCATCTTGAGTCCAGAGGCAGCCAAAGCAGTGGCA  
GTGACCTTGGTGGAGAGTGTGTGTCCCGATGCAGCTGGTGCAGAGCTGGCCTGGCCCCCGAGGAACACGCCCGG  
GCCACCGTGGAGCGGGATCTCCGCATTGGCCGGCGCTTCCGCGAACAGCCCTGCTCTTTGAGCTGTTAAAGCTG  
GTAGCAGCTGCACCCCCAGCCCTGTGCTACTGTTCCGTGCTGCTTCGGGGGGCTGCTGGCCGCCCTCTTGGGCCAT  
TGGGAAGCCTCTCGCCACCCTGACACGACCCACTCCCCCTGGCACCTGGAGGCATCCTGCACCTTAGTGGCTGTC  
ATGGCTGAGGGAAGCCTCCTGCCTCCGGCCCTGGGTAATATGCATGAAGTATTTAGCCAACTGGCACCTTTCGAG  
GTGCGTCTGCTGCTGCTCAGTGTCTGGGGTTTTCTCCGGGAGCATGGGCCCTTGCCCTCAGAACTCATCTTCCAA  
TCAGAGCGGGGTGCTTCACTCGGGACTTCTCCAGGGAGGGTGGAGGTGAGGGTGGACCCCATCTGGCTGTGCTG  
CACAGTGTCTCCACCGCAACATCGACCGCTAGGTCTTTTCTCTGGCCGTTTCCAGGCACCTTCACCGTCCACT  
CTCCTTCGACAGGGGACGTAGCCTTTTCTTGTCTGGAAGCCAGGGAGGTTGAGCAGTGAGAGAGGGGAAGGGAC  
TAACGTGCTCCGGAAGGGTGGAGGTTTCTTCTTAAGTCTTGGTCTAAAGAGCGCTGTCACTTTTTTCTCTCCC  
ACTTTTTTTTTTCTAAATAAAATTTGCCAACTTG

3508/6891  
**FIGURE 3235**

MSALCDPPGAPGPPGPAPATHGPAPLSAQELSQEIKAFLTGVDPILGHQLSAREHARCGLLLRLSPPARAAVLD  
HLRGVFDESVRHAALDETPVAGPPHLRPPPPSHVPAGGPGLEDVVQEVQVLSEFIRANPKAWAPVISAWSID  
LMGQLSSTYSGQHQRVPHATGALNELLQLWMGCRATRTLMDIYVQCLSALIGSCPDACVDALLDTSVQHSPHFDW  
VVAHIGSSFPGTIISRVLSCGLKDFCVHGGAGGGAGSSGGSSSQTPSTDFFPGSPAIPAERKVPKIASVVGILGH  
LASRHGDSIRRELLRMFHDSLAGGSGGRSGDPSLQATVPFLLQLAVMSPALLGTVSGELVDCLKPPAVLSQLQQH  
LQGFPREELDNMLNLAVHLVSQASGAGAYRLLQFLVDTAMPASVITTQGLAVPDTVREACDRLIQLLLLHLQKLV  
HHRGGSPGEGVLGPPPPRLVPFLDALKNHVGELCGETLRERKFLWQHQLLGLLSVYTRPSCGPEALGHLLSR  
ARSPEELSLATQLYAGLVVSLSGLLPLAFRSCLARVHAGTLQPPFTARFLRNLALLVGWEQQGGEGPAALGAHFG  
ESASAHLSDLAPLLHPEEEVAEAAASLLAICFPFSEALSPSOLLGLVRAGVHRFFASLRLHGPPGVASACQLLT  
RLSQTSPAGLKAVLQLLVEGALHRGNTELFGGQVDGDNETLSVVSASLASASLLDTNRRHTAAVPGGGIWSVFH  
AGVIGRGLKPPKFVQSRNQOEVIYNTQSLLSLLVHCCSAPGGTECGECWGAPILSPEAAKAVAVTLVESVCPDAA  
GAELAWPPEEHARATVERDLRIGRRFREQPLLFELLKLVAAPPALCYCSVLLRGLLAALLGHWEASRHPDTTHS  
PWHLEASCTLVAVMAEGSLPPLALGNMHEVFSQLAPFEVRLLLSVWGFLREHGFPLQKFIQSERGRFIRDFSR  
EGGEGGPHLAVLHLSVLHRNIDRLGLFSGRFQAPSPSTLLRQGT

3509/6881  
FIGURE 3236

GAGGAACATGATTTTATTGGTTCTTTTCAGTTACCCACATCCGACTCGCGTCTCGGCCCTGGCCCGCCTTGCGGAC  
CTTAAAGCAGTCAGTCCAGGGTTTGGGGGAAACGTGCTACCCGACGGCAGCTCACAGGACCCCGAGAGTCTTG  
GCATGGTATCTCGGTCCGACTCTCCGCTGGGCCCCACGAAGGAGAAAGGCTGCCTCGGATTCTGCGCCCAAGCC  
AAGGTCCGGCGCCCCACGGAGGCAAGTCCGGTCTCACGGTGACCTCCCGCTGGCGCCGCCTTCGCCGCCAACCATC  
CAGTTCTTCTCCAGGCCACGTTCTCCTGCGTGGTTCGCTGCCTCCTGCAGAGTGCCAGCAATAGCTGCTGGGTG  
CTGGCCGCCTCTCCCTGCTCCTTGGGTCTGCAGTGGCATCTCCTGAGGGCAGGAAGGGGAGTTGCGAGGAGCT  
CCAGTCCGGGGCTCTCCACCCGCCACCCTTCTCGGGACTACCAGTTGCTTCTACCTTTAGCATTTCCTGCTTC  
CGCCGCTCTCCCGGGGTACGATAACGAGGAGCGCGTAGCCACGCCAGCCCTGCGCCAGCATTGCGACTGAG  
ATCAGCATTTTCCGCAAGGAATCCATGGCCGCCTGCACAGCCAGCGGAGCGCCACGGGAGCTCCCCGCAGCCGC  
AAGCTGTTGCCGCGCGGTCTCACTACCCCTTGGCGCAGGCTAGAGCGCCCTATAGCAGAAACCATAGATAAGCGG  
CCGGCTAGAGAGGACCTGCTCGAGGAAACGTTTGAATCCGGAGCGCTTGATCTCAGGTTTAGCTGAGGGGGT  
GAGGTGTCCAAGAAGTGTGGCACCAAGGGCTGAGCGCGGGGACCCTGTGTCTCAATTCCGGGGTGGGATTGCT  
AGGGGGAGAGTGCCTGCTTCAATGTTGCGTGGGTTTTATGATTGCCATTTTCTGTCTTCCGACGTTTCCCG  
ATCAGTAGAGGCCGAGCTGTGCTCTGTGGTTTCTGCACTACCCGCGAGTTTCAACACAGCGCATGGAGGGC  
ATCTACACACATACATCCCTCTCCATCCCTCAACTCTGGAACAAACACTCAAAGTCAAGTATACTGGTTGGA  
GAAATGGGTAATAGTTACTTATCTTTAACATTTATTTTACAAACAACCTATTCTTTTCTCGTCATGGTACACAC  
TTGGTATTGTTTGGGTTTTTTTTGGTTTTGTGTTGTTGTTAGTGTGTGGGCGTGGTTTTGTTTGTGTTTTGGAG  
ACAAGGTCTCGCTCTGTGCCCCAGGGCTGGAGTGCAGTGGCGCGATCATGGCTACTGAAGCCTCGACTTCCAGG  
GCCAAGCGATCCTCTGCTCAACCTCCCGGATAGCTGGGATTACAGGCGTGCACCACCAGCCCGGCTGGTAT  
TGCTTTTTGTTTTGCTTCTTTTTTGTCTTTTGAGACAGAGTCTCACTCTGTTGCCAGCTGGAGTGCAG  
TGGCGTATCTCGGCTCACTGCAAGCTCTGCCTCCCGGGTTCAGCCATTCTCTGCTCAGCTCCCGAGTAGC  
TGGGACTACAGGCGCCGCCACCACGGCCGGCTAATTTTTTGTATTTTAGTAGAGAAAGAGTTTCACTATGTAG  
GTCAGGCTGGTCTCGAACTCTGACCTCGTGATCCGCCAATCCGCCACCTCGGCCTCCCAAAGTGCTGGGATT  
ACAGGTGTGAGCCACCGCGCCCGGCTGTTTTGCTTTGTTTTCAACCACTAAAAGGCTGGATTCTGTAAACATACT  
GAATTCTGCTTTACAGAAGAAAACACCTCTTAGCTGTGTGACTGATTATAGGCAAGTCTTGTGCCCGGTTTTCT  
GCATCAGAAAATGAAGCTTATAACAACAGTACTTGTCTCACAGTTTAGGATAATTAAATTAGTTATATGTAAAG  
CAATTAACAGCTCCTGCCAAGAGTAAACACCATATAAATATTCAATTAATAACATACAAACATACCAGGTTG  
GGAAAATCAGTAAGCATAGGAGTCAGGAAATCCAAGTTGGTTATCACAACTCTTGGCCACAGGGCTTAAATC  
CAGGTGCCCTTGTCTCCTACCTTGTGTCATCCAGTGTCTCCAGGGAGTAAGTAGAAATAAGATCCTATCTC  
ACCTCTTGGGCATTTTCCCTGCGCTGAAAGCGTATAATCGCTTAGCACAGTCCGTGCTTAAGGGGCCAGGCTCC  
AAAGAAGATTAAAGGAACAGTTTGTGGGGTGCCTGGGCAGCAGTACTCTCCTCTGAGTTCAATCATCTTGCACT  
CTAAGAATCACACCATGGCCCTTGTGCCAGGGAGAAGCAAGGAGGATGGGCTTTGGACTAGAAATAGCCCAGGC  
TCTCCCAGCATCCAGAAAGTCCAGGCTGCCAACCCCTCTCTGGGACAGAGGAAAAATTGGCAAGGTTGAAGGT  
CACCAGCACATTAGGATTTCTCTCAAAAGTCCCATCTGCCGTCTATTGTGGTGAATCCAGTGAGGTGAATGAA  
GAGAGTGGGGATCTCCATTTGCCCCATGAGGAGCTGCTGCTGCTCACTGATGGTGAGGAAGAGGATGCTGAGGCC  
TTCTTTCAAGACCAAAGTGAAGAGCCAGGCTGGGCTTGGAGCCACAGGACCCTAGAAGTCTTTAAGAACATTT  
AACGCTGGACTCAGCTGGGGGACAGGACAGGATGAAGAAGATGCTTGTGGATTCTTGAGGACACAGCATGTCTG  
GAAGCCACCAACCACTGTCCCTTCTGGGACTCAACAGGCTCCCGTGTGTTAGTAAGTGGCTTTGTGGAATATTC  
CATCTCCTGCCTCCTAATAGCTTTGAGGGAGCTGAAGAAGAAGCTGTTCAAACGCCGGCGGGTGTGTAATCGGGA  
GCGGCGTCTGAGGCACCGGGTGGTCGGGGCTGTGATAGACCAAGGGCTGATCACGCGGCACCACCTCAAGAAGCG  
GGCGTCCAGTGCACGTGCCAACATTACACTGTACAGGGAAGAAGCGCAGAAAACCTCCTCCAGCAGATCCGGCTG  
CCAGAAAGAGAAGACAGCCATGGAAGTGAAGCCCCCTCAAAGCCAGCCAGGACTAGTGAACCACAGCTCAAAAG  
GCAAAAGAAGACAAAAGCCCCCAGGATGTAGAAATGAAGGACCTTGAAGATGAGAGCTAAACCTCTTCCACTAG  
AAGATTCTCAACTGGAGCCAGCCTTCAGACTCAGTGGTTGTTTTCAGAGGACTTTGACAAAAGCAAGGCCCTTT  
CACTCTCCAGATTTCTCCTACCTAATGGCCTACTGACCTCCCTAGAGGGATGTCTTTGGGAGGGAAGAAGGTA  
CAGAAGAAAGATTGGAGAAGGGCTCTCTAGCAGTCAACTCCATTTGTAATAAGCCCTAGCACTCTGAAAAAAA  
AAAAAAAAAAAA

3510/6881  
**FIGURE 3237**

MKKMLVGFLRTQHVWKPPTTVPSGTQQAPVFVEVALWNIPISCLLIALRELKKKLFKRRRVLNREERLRHRVGA  
VIDQGLITRHHLLKKRASSARANITLSGKKRRKLLQQIRLAQKEKTAMEVEAPSKPARTSEPQLKRQKTKAPQDV  
EMKDLEDES

3511/6881  
**FIGURE 3238**

GGCACGAGGGGCTGCTATAGAGCCGGGTGAGAGAGCGAGCGCCCGTCGGCGGGTGTCGAGGGCGGGTTGCCTCGC  
GCTGACCCCTCCCGCCCTCCTTCTCGTCACACACCAGGTCCCCGCGGAAGCCGCGGTGTCGGCGCCATGGCGGAG  
CTGACGGCTCTTGAGAGTCTCATCGAGATGGGCTTCCCCAGGGGACGCGCGGAGAAGGCTCTGGCCCTCACAGGG  
AACCAGGGCATCGAGGCTGCGATGGACTGGCTGATGGAGCACGAAGACGACCCCGATGTGGACGAGCCTTTAGAG  
ACTCCCTTGACATATCCTGGGACGGGAGCCCACTTCCTCAGAGCAAGGCGGCCTTGAAGGATCTGGTTCTGCT  
GCCGAGAAGGCAAACCGCTTTGAGTGAAGAGGAAGACAGGAACAACTAAGAGGATGTTGGAGCTGGTGGCC  
CAGAAGCAGCGGGAGCGTGAAGAAAGAGAGGAACGGGAGGCATTGGAACGGGAACGGCAGCGCAGGAGACAAGGG  
CAAGAGTTGTCAGCAGCACGACAGCGGCTACAGGAAGATGAGATGCGCCGGGCTGCTGAGGAGAGGCGGAGGGAA  
AAGGCCGAGGAGTTAGCAGCCAGACAAAGAGTTAGAGAAAAGATCGAGAGGGACAAAGCAGAGAGAGCCAAGAAG  
TATGGTGGCAGTGTGGGCTCTCAGCCACCCCACTGGCACCAGAGCCAGGTCCTGTTCCCTCTTCTCCAGCCAG  
GAGCTCCACCAAGCGGGAGTATGACCAGTGTGCATACAGGTGAGGCTGCCAGATGGGACCTCACTGACCCAG  
ACGTTCCGGGCCCCGGGAACAGCTGGCAGCTGTGAGGCTCTATGTGGAGCTCCACCGTGGGGAGGAAGTAGGTGGG  
GGCCAGGACCTGTGCAATTGCTCAGTGGCTTCCCCAGACGGGCCTTCTCAGAAGCTGACATGGAGCGGCCTCTG  
CAGGAGCTGGGTATGGCTGCAAGACTAGAAACCAGGACTAGAACTGGGGGAGTAGGGAGGCATGCCTAGGAAAA  
GGAGGGATGCAAGAGAAGGGGCTTTGTGAACATGGTGCAGGCCAGGAATTTGGGAGCAAAAACCAAGTATCC  
TTGTGGTTCAAGCCTGTTTCTTCCATCTTCAGGACTCGTGCCCTTCTGCTGTTCTCATTGTGGCCAAGAAATGTC  
CCAGCTGAGGGCCTTTGTCCATTGTCCCTCTGTGACCCCTTCATCTTTGATAAAGCACTGACATCTCCTTCCTA  
ATAAATAGACCCTGAGTTCTGTAAAAA

3512/6881  
**FIGURE 3239**

MAELTALES LIEMGFPRGRAEKALALTGNQGIEAAMDWLMEHEDDPDVDEPLETPLGHILGREPTSSEQGGLEGS  
GSAAGEGKPALSEEERQEQTMRLELVAQKQREEREEREEREALERERQRRRQGQELSAARQLQEDEMRRAAEER  
RREKAEELAAARQVRVREKIERDKAERAKKYGGSVGSQPPVAPPEPGVPSSPSQEPPTKREYDQCRIQVRLPDGTS  
LTQTFRAREQLAAVRLYVELHRGEELGGGQDPVQLLSGFPRRAFSEADMERPLQELGMAARLETRTRNWGSREAC  
LGKGGMQREGAL

3513/6881  
**FIGURE 3240**

GGCACGAGGCCTAAGAGTTCTCTGCTGTACGACTGCACTCCCGCACCCCTCCCCTAAATCCCCCTCTTCGGCCT  
GTTTACCTTTTAACTTGGCTTCGTTCACGTTTGTGTGTGTGTGTTGCTCTTCGCAGCCTCTTGAGCGTCTTTT  
GTACTTAATTCTTACACTGTGGACGCTCTCTCGCGCCCGCCATCCCCGACCCCTCTGATCTCCGATCCTTGACG  
ATGTCTAGCCTGCATTGATTGGCCCTTTTCCCTGGGTATGGCAGATCTATTGCTTGATGATCCTCTCCCCCAAG  
AATTCTAACACAGGAGCTGTCTGAGGCTCTGGATGACTTTATTCTTCAAATGGCTTTACCTCCCAGTAGCTCC  
AGGGACCCTCCATTTTCCATATCCAGGAAAATGTGATGCGCCACAGGTATCAGCGTCTGGATCGCCACTTCACGT  
TTTAGCCACAAGTGACTCAGTGGAAGATCCAGAGTCAACAGAGGCTCGTCAGGAAGATGCTCTACAGAAAAGGTAG  
ACCAAAAGGAGGAAGCTGGGGAAAAGAGGTGTGCGGAGACCAGATCAAAGGACCGGACAAAGAGGAGGAACCAC  
CAGTGCTGCATCCCATGGCCAGGGGTGGCGTCCAGGTGGCAGAGCAGCTAGGAACGCAAGGCCTGAACCTGGGG  
CCAGACACCCTGCTCTCCCGGCCATGGTCAACGACCCTCCAGTACCTGCCTTACTGTGGGCCAGGAGGTGGGCC  
AAGTCTTGGCAGGCCGTGCGCGCAGGCTGCTGCTGCAGTTTGGGGTGCTCTCTGCACCATCCTCCTTTTGTCT  
GGGTGCTGTCTTCTCTATGGCTCCTTCTACTATTCTATATGCCGACAGTCAGCCACCTCAGCCCTGTGCATT  
TCTACTACAGGACCGACTGTGATTCCCTCCACCACCTCACICTGCTCCTTCCCTGTTGCCAATGTCTCGCTGACTA  
AGGGTGGACGTGATCGGGTGTGATGTATGGACAGCCGTATCGTGTTACCTTAGAGCTTGAGCTGCCAGAGTCCC  
CTGTGAATCAAGATTTGGGCATGTTCTTGGTCACCATTTCCTGCTACACCAGAGGTGGCCGAATCATCTCCACTT  
CTTCGCGTTTCGGTGATGCTGCATTACCGCTCAGACCTGCTCCAGATGCTGGACACACTGGTCTTCTCTAGCCTCC  
TGCTATTTGGCTTTGCAGAGCAGAAGCAGCTGCTGGAGGTGGAACCTCTACGCAGACTATAGAGAGAACTCGTACG  
TGCCGACCACTGGAGCGATCATTGAGATCCACAGCAAGCGCATCCAGCTGTATGGAGCCTACCTCCGCGATCCACG  
CGCACTTCACTGGGCTCAGATACCTGCTATACAACCTCCCGATGACCTGCGCCTTCATAGGTGTTGCCAGCAACT  
TCACCTTCCTCAGCGTCATCGTGCTCTTCAGCTACATGCAGTGGGTGTGGGGGGGCATCTGGCCCCGACACCGCT  
TCTCTTTGCAGGTAAACATCCGAAAAGAGACAATTCGCGAAGGAAGTCCAACGAAGGATCTCTGCTCATCAGC  
CAGGTGCAGGGCCTGAAGGCCAGGAGGAGTCAACTCCGCAATCAGATGTTACAGAGGATGGTGAGAGCCCTGAAG  
ATCCCTCAGGGACAGAGGGTCAGCTGTCCGAGGAGGAGAAACCAGATCAGCAGCCCTGAGCGGAGAAGAGGAGC  
TAGAGCCTGAGGCCAGTGATGGTTCAGGCTCCTGGGAAGATGCAGCTTTGCTGACGGAGGCCAACCTGCCTGCTC  
CTGCTCCTGCTTCTGCTTCTGCCCCGTGCTAGAGACTCTGGGCAGCTCTGAACCTGCTGGGGGTGCTCTCCGAC  
AGCGCCCCACCTGCTCTAGTTCTTGAAGAAAAGGGGCAGACTCCTCACATTCCAGCACTTTCCACCTGACTCCT  
CTCCCCTCGTTTTCTTCAATAAACTATTTTGTGTCAGCTTCAAAAAAAAAAAAAAAAAAAAAA



3514/6881  
**FIGURE 3241**

MSTEKVDQKEEAGEKEVCGDQIKGPDKEEPPAAASHGQGWRPGGRAARNARPEPGARHPALPAMVNDPPVPALL  
WAQEVGQVLAGRARRLLLQFGVLFCTILLLLWVSFLYGSFYYSYMP TVSHLSPVHFYYRTDCDSSTTSLCSFPV  
ANVSLTKGGRDRVLMYGQPYRVTELELELPESPVNQDLGMFLVTISCYTRGGRIISTSSRSVMLHYRSDLLQMLDT  
LVFSSLLLFQFAEQKQLLEVELYADYRENSYVPTTGAIIEIHSKRIQLYGAYLRIHAHFTGLRYLLYNFPMTCF  
IGVASNFTFLSVIVLFSYMQVWGGIWPRHRFSLQVNIRKRDNSRKEVQRRISAHQPGAGPEGQEESTPQSDVTE  
DGESPEDPSGTEGQLSEEEKPDQQPLSGEEELEPEASDGSGSWEDAALLTEANLPAPAPASASAPVLETLSSEP  
AGGALRQRPTCSSS

3515/6881  
**FIGURE 3242**

GGCACGAGGGAGCGCTTGGGAGTTAGGTTGTTTGCCGGCGTAGCGGCCAGCGCCTGAGCCCGCCGTTGATCTTCG  
CTGTGGCATGGCGGACGAGGGGAAGTCGTACAGCGAACACGATGATGAACGCGTTAATTTCCCTCAAAGAAAGAA  
GAAAGGCCGGGGTCCCTTCCGGTGAAATATGGTGAAGGAAACCGTAGGTCTGGAAGAGGCGGTTCTGGTATTTCG  
GTCTTCCCGCCTTGAGGAAGATGATGGAGATGTGGCAATGAGTGATGCCCAGGATGGTCCCGAGTACGATACAA  
CCCCTATACCACCCGACCTAACCGTCGGGGTGATACTTGGCATGATCGAGATCGCATTATGTTACTGTGCGGAG  
AGACAGAGCTCCTCCAGAGAGAGGAGGGGCTGGCACCAGCCAGGATGGGACCTCAAAGAAGTGGTCAAGATTAC  
AATTCCTTATGGCAGAAAGTATGACAAGGCATGGCTCCTGAGCATGATTAGAGCAAGTGCAGTGTGCCCTTCAC  
CCCTATTGAGTTTCACTATGAGAATACACGGGCCCCAGTTCTTCGTTGAAGACGCCAGTACTGCCTCTGCATTGAA  
GGCTGTCAACTATAAGATTTTGGATCGGGAGAACCGAAGGATATCTATCATCAACTCTTCTGCTCCACCCCA  
CACTATACTGAATGAAGTGAAGCCAGAACAAGTAGAACAGCTAAAGCTGATCATGAGCAAACGATACGATGGCTC  
CCAACAAGCCCTTGACCTCAAAGGCCTCCGTTACAGCCAGATTGGTGGCCCAGAACATTGACGTTGTCTCGAA  
TCGCAGAAGCTGTATGGCAGCTACCCTGAGGATCATTGAAGAGAACATCCCTGAGCTATTGTCTTGAAGTGGAG  
CAACAACAGGCTGTACAGGCTGGATGACATGTCTAGCATTGTTGAGAAGGCACCCAACCTGAAGATCCTAAACCT  
TTCTGGAAATGAATTGAAGTCTGAGCGGGAATTGGACAAGATAAAGGGGCTGAAGCTAGAAGAGCTCTGGCTCGA  
TGGAAGTCCCTGTGTGACACCTTCCGAGACCAGTCCACCTACATCAGCGCCATTGCGGAACGATTTCCCAAGTT  
ACTACGCCTGGATGGCCATGAGCTACCCCCACCAATTGCCTTTGATGTTGAAGCCCCACGACGTTACCGCCCTG  
CAAGGGAAGCTATTTTGGAAACAGAAAAGTGAAGAGTCTGGTCTTGCACTTCTGCAACAGTACTATGCAATTTA  
CGACTCTGGAGACCGACAAGGGCTCCTGGATGCCTACCATGATGGGGCCTGCTGTCCCTGAGCATTCCTTTTCAT  
TCCTCAGAACCCTGCCCGAAGCAGCTTAGCCGAGTATTTCAAGGATAGCAGAAATGTGAAGAAGCTTAAAGACCC  
TACCTTGCGGTTCCGGCTGCTGAAGCACACGCGTCTCAACGTTGTTGCCTTCTCAATGAGTTGCCCAAAACCCA  
GCACGACGTCAATTCTTCTGTTAGACATAAGCGCCAGACAAGCACATTGCTGTGTTTTTCTGTCAATGGAGT  
CTTCAAGGAAGTGGACGGAAAGTCCCGGGATTCTTTGCGAGCCTTACCCGGACATTCATTGCTGTTCTCTGCTAG  
CAATTCAGGGCTATGTATTGTAAATGATGAGCTATTTGTGCGGAATGCCAGTTCTGAAGAGATCCAAAGAGCCTT  
CGCTATGCCTGCACCCACGCCTTCCTCCAGCCCGGTGCCACCTCTCTCCAGAGCAGCAGGAAATGTTGCAAGC  
ATTCTCTACCCAGTCTGGCATGAACCTCGAGTGGTCCCAGAAGTGCCCTTCAGGACAACAAGTGGGACTACACCAG  
ATCTGCCCAGGCCTTCACTCATCTCAAGGCCAAGGGCGAGATCCCAGAAGTGGCATTTCATGAAGTGATGCTAGTC  
ATGCCTCAGAAGCAGTCCCCCTGTAAATAGTCTTGGATATTACCGTCTGGTTGTGCTGTCTCTCTCTCTCTG  
TCTGGCCCGAGGCCGCCCGTGACTGTGACCGAGGGAGGGAGGGCTGCCTGATCCCTCTCTCTGCTGCTTCTG  
GAAGACTTCAGAAGATTGAGCCTCACTGGTGCCAGGAAGCCAAAGCTTACTTTGTAGAACTGACACTAAACTACC  
CGAAGGACTTAGGTGCTTTGTGTACTTAACCCAGGACCTCTTACTTTTTAATATAAAGAGTGATGTTGTAAAA  
AAAAAAAAAAAAA

3516/6881  
**FIGURE 3243**

MADEGKSYSEHDDERVNFPQKKKGRGPFWRKYEGENRRSGRGGSGIRSSRLEEDDGDVAMSDAQDGPRVRYNPY  
TTRPNRRGDTWHDRDRIHVTVRRDRAPPERGGAGTSQDGTSKNWFKITIPYGRKYDKAWLLSMIQSKCSVPFTPI  
EFHYENTRAQFFVEDASTASALKAVNYKILDRENRRISIIINSSAPPHTILNELKPEQVEQLKLIMSKRYDGSQQ  
ALDLKGLRSDPDVAQNIDVVLNRRSCMAATLRIIEENIPELLSLNLSNNRLYLDDMSSIVQKAPNLKILNLSG  
NELKSERELDKIKGLKLEELWLDGNSLCDTFRDQSTYISAIRERFPKLLRLDGHELPPPIAFDVEAPTTLPPCKG  
SYFGTENLKSLVLHFLQYYAIYDSGDRQGLLDAYHDGACCSLSIPFIPQNPARRSSLAEYFKDSRNVKKLKDPTL  
RFRLKHLRLNVVAFNLNLPKTQHDVNSFVVDISAQTSTLLCFVNGVFKEVDGKSRDSLRAFTRTFIAPPASNS  
GLCIVNDEL FVRNASSEEIQRAFAMPAPT PSSSPVPTLSPEQQEMLQAFSTQSGMNLEWSQKCLQDNNWDYTRSA  
QAFTHLKAKGEIPEVAFMK

3517/6881  
**FIGURE 3244**

GAACTTGCGGCGCGAAAAAGGCGCGCATGCGTCTACGGGAGCGTGCTGGCTCACCGACCGCATTGCGGCTTGGT  
TTTCTACCCAGTGCATGTGGCAGGAGCGGTGAGATCACTGCCTCACGGCGATCCTGGACTGACGGTCACGACTG  
CCTACCCTCTAACCTGTTCTGAGCTGCCCCCTTGCCCACACACCCCAAACCTGTGTGCAGGATCCGCCTCCATGG  
AGCTACAGCCTCTGAAGCCTCGATCGCCGTCGTGTCGATTCCGCGCCAGTTGCCTGGCTCACATTCGGAGGCTG  
GTGTCCAGGGTCTCAGCGCGGGGACGACTCAGAGTTGGGGTCTCACTGTGTTGCCAGACTGGTCTCGAACTCT  
TGGCCTCAGGTGATCCTCTTCCCTCAGCTTCCCAGAATGCCGAGATGATAGAGACGGGGTCTGACTGTGTTACCC  
AGGCTGGTCTTCAACTCTTGGCCTCAAGTGATCCTCTGCCTTAGCTTCCAAGAATGCTGAGGTTACAGTAGAAA  
CGGGGTTTACCATGTTAGCCAGGCTGATATTGAATTCCTGACCTCAATTGATCCGACTGCCTCGGCCTCCGGAA  
GTGCTGGGATTACAGGCACCATGAGCCAGGACACCGAGGTGGATATGAAGGAGGTGGAGCTGAATGAGTTAGAGC  
CCGAGAAGCAGCCGATGAACGCGGCGTCTGGGGCGGCCATGTCCCTGGCGGGAGCCGAGAAGAATGGTCTGGTGA  
AGATCAAGGTGGCGGAAGACGAGGCGGAGGCGGCAGCCGCGGCTAAGTTACAGGGCCTGTCCAAGGAGGAGCTGC  
TGAAGGTGGCAGGCAGCCCCGGCTGGGTACGCACCCGCTGGGCACTGTGCTGCTCTTCTGGCTCGGCTGGCTCG  
GCATGCTTGCTGGTGCCGTGGTCATAATCGTGCGAGCGCCGCTTGTGCGGAGCTACCGGCGCAGAAGTGGTGGC  
ACACGGGCGCCCTCTACCGCATCGGCGACCTTCAGGCCTTCCAGGGCCACGGCGCGGGCAACCTGGCGGGTCTGA  
AGGGGCGTCTCGATTACCTGAGCTCTCTGAAGGTGAAGGGCCTTGTGCTGGGTCCAATTCACAAGAACCAGAAGG  
ATGATGTGCTCAGACTGACTTGCTGCAGATCGACCCCAATTTTGGCTCCAAGGAAGATTTTGACAGTCTCTTGC  
AATCGGCTAAAAAAGAGCATCCGTGTCAATTCTGGACCTTACTCCCAACTACCGGGGTGAGAATCGTGGTTCT  
CCACTCAGGTTGACACTGTGGCCACCAAGGTGAAGGATGCTCTGGAGTTTGGCTGCAAGCTGGCGTGGATGGGT  
TCCAGGTTCCGGACATAGAGAATCTGAAGGATGCATCCTCATTCTTGGCTGAGTGGCAAAATATCACCAAGGGCT  
TCAGTGAAGACAGGCTCTTGATTGCGGGGACTAACTCCTCCGACCTTCAGCAGATCCTGAGCCTACTCGAATCCA  
ACAAAGACTTGCTGTTGACTAGCTCATACCTGTCTGATTCTGGTTCTACTGGGGAGCATACAAAATCCTTAGTCA  
CACAGTATTTGAATGCCACTGGCAATCGCTGGTGCGAGCTGGAGTTTGTCTCAGGCAAGGCTCCTGACTTCCTTCT  
TGCCGGCTCAACTTCTCCGACTCTACCAGCTGATGCTCTTACCCTGCCAGGGACCCCTGTTTTAGCTACGGGG  
ATGAGATTGGCCTGGATGCAGCTGCCCTTCCCTGGACAGCCTATGGAGGCTCCAGTCATGCTGTGGGATGAGTCCA  
GCTTCCCTGACATCCCAGGGGCTGTAAGTGCCAACATGACTGTGAAGGGCCAGAGTGAAGACCCCTGGCTCCCTCC  
TTTCTTGTTCGGGCGGCTGAGTGACCAGCGGAGTAAGGAGCGCTCCCTACTGCATGGGGACTTCCACGCGTTCT  
CCGCTGGGCTGGACTCTTCTCCTATATCCGCCACTGGGACCAGAATGAGCGTTTTCTGGTAGTGCTTAACCTTG  
GGGATGTGGGCTCTCGGCTGGACTGCAGGCCTCCGACCTGCCAGCGCCAGCCTGCCAGCCAAGGCTGACC  
TCCTGCTCAGACCCAGCCAGGCCGTGAGGAGGGCTCCCTCTTGAGCTGGAACGCCTGAAACTGGAGCCTCACG  
AAGGGCTGCTGCTCCGCTTCCCTACGCGGCCTGACTTCAGCCTGACATGGACCCACTACCCTTCTCCTTTCCTT  
CCCAGGCCCTTGGCTTCTGATTTTTCTCTTTTTTAAAAACAAACAAACAACTGTTGCAGATTATGAGTGAACC  
CCCAATAGGGTGTCTTCTGCCTTCAAATAAAGTCACCCCTGCATGGTG

3518/6881  
**FIGURE 3245**

GACAGCGGCTTCCTTGATCCTTGCCACCCGCGACTGAACACCGACAGCAGCAGCCTCACCATGAAGTTGCTGATG  
GTCCTCATGCTGGCGGCCCTCTCCCAGCACTGCTACGCAGGCTCTGGCTGCCCCTTATTGGAGAATGIGATTTC  
AAGACAATCAATCCACAAGTGTCTAAGACTGAATACAAAGAACTTCTTCAAGAGTTCATAGACGACAATGCCACT  
ACAAATGCCATAGATGAATTGAAGGAATGTTTTCTTAACCAAACGGATGAAACTCTGAGCAATGTTGAGGTGTTT  
ATGCAATTAATATATGACAGCAGTCTTTGTGATTATTTTTAACTTTCTGCAAGACCTTTGGCTCACAGAACTGCA  
GGGTATGGTGAGAAACCAACTACGGATTGCTGCAAACCACACCTTCTTTCTTATGTCTTTTTACTACAAACTA  
CAAGACAATTGTTGAAACCTGCTATACATGTTTATTTTAATAAATTGATGGCA

3519/6881  
**FIGURE 3246**

MKLLMVLMLAALSQHCYAGSGCPLEENVISKTNPQVSKTEYKELLQEFIDDNATTNAIDELKECFINQTDETLS  
NVEVFMQLIYDSSLCDLF

3520/6881  
**FIGURE 3247**

CGCCGCCGCTCCAGCGCCGCGCAGCCACCGCCGCCGCCGCCCTCTCCTTAGTCGCCGCCATGACGACCGCGTC  
CACCTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTGGAGCTCTA  
CGCCTCCTACGTTTACCTGTCCATGTCTTACTACTTTGACCGCGATGATGTGGCTTTGAAGAACTTTGCCAAATA  
CTTTCTTACCAATCTCATGAGGAGAGGGAACATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCG  
AATCTTCCTTCAGGATATCAAGAAACCAGACTGTGATGACTGGGAGAGCGGGCTGAATGCAATGGAGTGTGCATT  
ACATTTGGAAAAAATGTGAATCAGTCACTACTGGAACTGCACAACTGGCCACTGACATGAAAGCCATCAAAGA  
ATTGGGTGACCACGTGACCAACTTGCGCAAGATGGGAGCGCCGAATCTGGCTTGGCGGAATATCTCTTTGACAA  
GCACACCTTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGGCTAATTTCCCATAGCCGTGGGGTGACTTCCTT  
GGTCACCAAGGCAGTGCATGCATGTTGGGG

3521/6881  
**FIGURE 3248**

CTGGTGGGGGAAGAAGGCTCCTGCTACCTCCCTTCCCGGCACCCTCCAGAGGGACCCTCAGTCTGGCCTTGCAA  
GCATGGACTCTTCTGAGGAGCACGCTGGGTGCCCCGCCCAGGGACATGTCCCGTGTTCCTGGCCATGAGTGCA  
GGACTGTCCGCTACGCCCCATCAGGCCTGTGCCCTGTACTTGAGGGGAACCTGAGAGAAGAGCCCTGGGGCACAG  
ACAGCCCACCCAGCCAGACCAGGGCCTCCCGCGCCCTTGCACTGTCCCGGTCCCTGGAAGAGCACGGACC  
CCTGCCAAGGCCACAGGGAGTCCCCAGGAGCCCTGGTGGAGACCTCTGCAGGGGAGGAGGCCGAGGCCAGGAGG  
GCCCCGAGCCGCCAGCTGGACGTGTTGCCCTGCGCAGCTCTTCCATGGAGATCCGAGAGAAGGGCTCCGAGT  
TCCTGAAGGAGGAGCTGCACAGAGCGCAGAAGGAGCTGAAGCTAAAGGACGAGGAATGTGAGCGGCTGTCCAAGG  
TGCGGGAGCAGCTAGAACAGGAGCTGGAAGAGCTGACGGCCAGCCTGTTTGAGGAAGCTCACAAGATGGTTGCGAG  
AAGCCAACATGAAGCAGGCGGCATCAGAAAAGCAGCTGAAGGAGGCTCGGGGCAAGATCGACATGTGTCAGGCAG  
AGGTGACAGCCTTGAAGACGTGGTCATCAGTCCACACCAGCCTCTCCCAACCGCGAGCTTACCCCCAGCTGC  
TGAGCCCCACCAAGGCCGGGCCCCGAAAGGGCCACTCTCGCCACAAGAGCACCAGCAGCACCCTCTGCCCCGCCG  
TGTGTCCCGCTGCGGGACACACCCTCACCCAGACAGAGAGGGCAAGGAGGTGGACACAATCTGTTTGCAGAGT  
TCCAGGCCTGGAGGGAATCCCCACCCTGGACAAGACCTGCCCCCTTCTGGAAAGGGTGTACCGGGAGGACGTGG  
GCCCCCTGCCTGGACTTCAGATGCAGGAGCTCTCGGTGCTGGTACGGGCCCGCTGGAGGACAACACGCTACCA  
TTGAGCCGGTGGCTTCGCAGACGTGCCCCAGTGAAGGTGGCCGAGGTTGACTGTAGCAGCACCACACATGTG  
CCCTGAGCGGGCTGACCCGCACCTGCCGCCACCGAATCCGGCTCGGGGACTCCAAAAGCCATTACTACATCTCGC  
CATCTTCCCGGGCCAGGATCACCGCAGTGTGCAACTTCTTACCTACATCCGCTACATCCAGCAAGGCCTGGTGC  
GGCAGGACGCAGAGCCCATGTTCTGGGAGATCATGAGGTTGCGGAAGGAGATGTCACTGGCCAAGCTCGGCTTCT  
TCCCCAGGAGGCTTAGGGCGCGGCCAGGCCTGAAGGGGAGCTCTGAGACAGAGCAAACACCCACCCAGAAC  
AGCCGACACACAGGGAGACGGGGCCCTGGAGCCAGCCCTGAGCCAGAGGCAGAATGGATGGACAGACAGGCCATG  
GAGGCAGCACTGAGCCAGCACCACACGTCCATCCTGGGACAGACGGGCCTGGACTTCACGGCAAGACCCCCCTCT  
CTTCCCCTACTGGGTTCTGCCACCACCAGGAGGATTTCAAGAAAGCACCACCAAGACCAGGGAGCTCGGATCCATACT  
CGGGGGGCTCTAGCCCTTGGGAGGGGACACCTGAGGCAGCCAGCGCCCCCTCCCCAGTCCCCAGAACTGCCTGCA  
GGTGCCTTGTGTGCTGGCTTGTCTTCAAGAAAGGACTGTTCTGGGTGGCTGGATCTCCAGGGTACCCTCCACCCCA  
GCTGCCAAGCCCTGGGCCAGCAGCACCCTTGTGGCCATCCTGTGCCTTGTTCGGGTGGCTCCCTATTGGAC  
TACTAGGAGGGGCTGGCAGGGCCTCCATAGCACAGAATTGCCCCAAAGCCTTGTTAAGATGAGTCAAGACCCCTC  
CCCCGCTTCTCTCCCTTCTTCCCCCTTCTCCCTCCCCCTTCAAAAGGCCTCCCTTGTACCTTCCCTCCCAC  
CCGCTCTCAGCCCTGTGCTCCTGGAGGCCCTGCTCCCAAACCGCTGGAAGGACTGGGGCACTTCTGCCACAGT  
AGAACACAGACAGGGCTTCAGATCGCCACGCCTGTTTTAGCTGTGGGTGGCCATGCAGACACGCGCCCTGGCA  
TGTGGGGCTTGGGTGGGCAGGCAGGACCTGGGCCCTCCACCCATCAGAGCCCACTCAGGACCAGCGTTTCGGAGC  
TCCACCTGGACGCATCCCTCACCACGTCCGGATTCCTTCTTGGATGGAATGTAACGCGATCTCTATTTAATA  
AAGGCAGGCTTTGTTGGT



3522/6881  
**FIGURE 3249**

AGGGGGCGCGGTGGGAGGAGTAGGAGAAGACAAAAGCCGAAAGCGAAGAGGGCCCCGGGCTGCACACACCGGCTGG  
GAGGCAGCCGTCTGTGCAGCGAGCAGCCGGCGCGGGGAGGCCGAGTGCACGGGGCGTCACAGTCGGCAGGCAGC  
**AT**GGGGAAGGGAGGGGAACCAGGGCGAGGGGGCCGCCGAGCGCGAGGTGTCGGTGCCACCTTCAGCTGGGAGGAG  
ATTGAGAAGCATAACCTGCGCACCGACAGGTGGCTGGTCATTGACCGCAAGGTTTACAACATACCAAATGGTCC  
ATCCAGCACCCGGGGGGCCAGCGGGTCATCGGGCACTACGCTGGAGAAGATGCAACGGATGCCTTCGCGCCTTC  
CACCTTGACCTGGAATTCGTGGGCAAGTTCTTGAACCCCTGCTGATTGGTGAAGTGGCCCCGGAGGAGCCAGC  
CAGGACCACGGCAAGAAGTCAAAGATCACTGAGGACTTCGGGGCCCTGAGGAAGACGGCTGAGGACATGAACCTG  
TTCAAGACCAACCACGTGTTCTTCTCCTCCTCGGCCACATCATCGCCCTGGAGAGCATTGCATGGTTCACT  
GTCTTTTACTTTGGCAATGGCTGGATTCTACCTCATCACGGCCTTTGTCTTGCTACCTCTCAGGCCCCAAGCT  
GGATGGCTGCAACATGATTATGGCCACCTGTCTGTCTACAGAAAACCAAGTGAACACCTTGTCCACAAATTC  
GTCAATGGCCACTTAAAGGGTGCCTCTGCCAAGTGGTGAATCATCGCCACTTCCAGCACCACGCCAAGCCTAAC  
ATCTTCCACAAGGATCCCGATGTGAACATGCTGCACGTGTTTGTCTGGGCGAATGGCAGCCCATCGAGTACGGC  
AAGAAGAAGCTGAAATACCTGCCCTACAATACCAGCAGCAATACTTCTTCTGATTGGGGCCCGCTGCTCATC  
CCCATGTATTTCCAGTACCAGATCATCATGACCATGATCGTCCATAAGAAGTGGGTGGACCTGGCTGGGCCGTC  
AGCTACTACATCCGTTCTTCATCACCTACATCCCTTTCTACGGCATCCTGGGAGCCCTCCTTTTCTCAACTTC  
ATCAGGTTCTGGAGAGCCACTGGTTTGTGTGGGTACACAGATGAATCACATCGTCATGGAGATTGACCAGGAG  
GCCTACCGTGACTGGTTTCAGTAGCCAGCTGACAGCCACCTGCAACGTGGAGCAGTCCTTCTTCAAGACTGGTTT  
AGTGGACACCTTAACCTCCAGATTGAGCACCCTCTTCCCCACCATGCCCGGCACAACCTACACAAGATCGCC  
CCGCTGGTGAAGTCTCTATGTGCCAAGCATGGCATTGAATACCAGGAGAAGCCGCTACTGAGGGCCCTGCTGGAC  
ATCATCAGGTCCCTGAAGAAGTCTGGGAAGCTGTGGCTGGACGCCTACCTTCACAAATGAAGCCACAGCCCCCGG  
GACACCGTGGGGAAGGGGTGCAGGTGGGGTGTAGGCCAGAGGAATGATGGGCTTTTGTTCGAGGGGTGTCCGAG  
AGGCTGGTGTATGCACTGCTCACGGACCCCATGTTGGATCTTTCTCCCTTTCTCCTCTCCTTTTTCTCTTACAT  
CTCCCCATAGCACCTGCCCTCATGGGACCTGCCCTCCCTCAGCCGTGAGCCATCAGCCATGGCCCTCCAGTG  
CCTCCTAGCCCTTCTTCCAAGGAGCAGAGAGGTGGCCACCGGGGTGGCTCTGTCTACCTCCACTCTCTGCCC  
CTAAAGATGGGAGGAGACCAGCGGTCCATGGGTCTGGCCTGTGAGTCTCCCCTTGACGCTGGTCACTAGGCATC  
ACCCCGCTTTGGTTCTTCAGATGCTCTTGGGGTTCATAGGGGCAGGTCTAGTCGGGCAGGGCCCCTGACCTC  
CCGGCTGGCTTCACTCTCCCTGACGGCTGCCATTGGTCCACCTTTCATAGAGAGGCCTGCTTTGTTACAAAGC  
TCGGGTCTCCCTCCTGCAGCTCGGTTAAGTACCCGAGGCCTCTCTTAAGATGTCCAGGGCCCCAGGCCCGGGC  
ACAGCCAGCCCAAACCTTGGGCCCTGGAAGAGTCTCCACCCCATCACTAGAGTGCTCTGACCTGGGCTTTCAC  
GGGCCCATTCACCGCCTCCCCAAGTGTGAGCCTGTGACCTTGGGACCAAGGGGGAGTCCCTCGTCTCTTGTGA  
CTCAGCAGAGGCAGTGGCCACGTTAGGGAGGGGCCGGCTGGCCTGGAGGCTCAGCCACCTCCAGCTTTTCT  
CAGGGTGTCTGAGGTCCAAGATTCTGGAGCAATCTGACCTTCTCCAAAGGCTCTGTTATCAGCTGGGCAGTGC  
CAGCCAATCCCTGGCCATTTGGCCCCAGGGGACGTGGGCCCTGCAGGCTGCAGGAGGGCACTGGAGCTGGGAGGT  
CTCGTCCAGCCCTCCCATCTCGGGGCTGCTGTGTGGACGGCGCTGCCTCAGGCACTCTCCTGTCTGAACCTGC  
CCTTACTGTGTTTAACTGTTGCTCCAGGATGCATTCTGATAGGAGGGGGCGGCAGGGCTGGGCCTTGTGACAAT  
CTGCCCTTACCCACATGGCCTTGCCCTCGGTGGCCCTGACTGTGAGGGAGGGCCAGGGAGGCAGAGCGGGAGGGAG  
TCTCAGGAGGAGGCTGCCCTGAGGGGCTGGGGAGGGGTACCTCATGAGGACCAGGTGGAGCTGAGAAGAGGAG  
GAGGTGGGGGCTGGAGGTGCTGGTAGCTGAGGGGACGGGCAAGTGAGAGGGGAGGGAGGGAAGTCTGGGAGGAT  
CCTGAGCTGCTGTTGCAGTCTAACCCTAATCAGTTCTTAGATTGAGGGGAAGGGCAGGCACCAACAACCTCAGA  
ATGGGGGCTTTCCGGGAGGGCGCCTAGTCCCCCAGCTCTAAGCAGCCAGGAGGGACCTGCATCTAAGCATCTGG  
GTTGCCATGGCAATGGCATGCCCCCAGCTACTGTATGCCCCGACCCCCGAGAGGCAGAATGAACCCATAGGG  
AGCTGATCGTAATGTTTATCATGTTACTTCCCCACCCCTACATTTTTTGAAATAAAATAAGGAATTTTATTCTC

3523/6881  
**FIGURE 3250**

MGKGGNQGEAAEREVSVP TFSWEEIQKHNLR TDRWLVIDRKVYNITKWSIQHPGGQRVIGHYAGEDATDAFRAF  
HPDLEFVGKFLKPLLIGELAPEEPSQDHGKNSKITEDFRALRKTAEDMNLFKTNHVFFLLLLAHIIALESIAWFT  
VFYFGNGWIP TLITAFVLATSQAQAGWLQHDYGHLSVYRKPKWNHLVHKFVIGHLKGASANWWNHRHFQHHAKPN  
IFHKDPDVNMLHVFVLGEWQPIEYGKKKLKYL PYNHQHEYFFLIGPPLLIPMYFYQYIIMTMIVHKNWVDLAWAV  
SYYIRFFITYIPFYGILGALLFLNFIRFLESHWFVWVTQMNHIVMEIDQEAYRDWFSSQLTATCNVEQSFFNDWF  
SGHLNFQIEHHLFPTMPRHNLHKIAPLVKSLCAKHGIEYQEKPLLRALLDIIRSLKKSGKLWLDAYLHK

3524/6881  
FIGURE 3251A

TCCACTCCTGGAGCCCGCGGACCCCGAGCACGCGCCTGACAGCCCCTGCTGGCCCGGCGCGCGCGCTCGCCAGGC  
CAGCTATGGCCCCCGACCCGGTGGCCGCCGAGACCGCGGCTCAGGGACCTACCCCGCGCTACTTCACCTGGGACG  
AGGTGGCCAGCGCTCAGGGTGCAGGAGCGGTGGCTAGTGATCGACCGTAAGGTGTACAACATCAGCGAGTTCA  
CCCGCCGGCATCCAGGGGGCTCCCGGGTCATCAGCCACTACGCCGGGCGAGGATGCCACGGATCCCTTTGTGGCCT  
TCCACATCAACAAGGGCCTTGTGAAGAAGTATATGAAGTCTCTCCTGATTGGAGAAGTGTCTCCAGAGCAGCCCA  
GCTTTGAGCCCAACAAGAATAAAGAGCTGACAGATGAGTTCGGGAGCTGCGGGCCACAGTGGAGCGGATGGGGC  
TCATGAAGGCCAACCATGTCTTCTTCTGCTGTACCTGCTGCACATCTTGCTGCTGGATGGTGCAGCCTGGCTCA  
CCCTTTGGGTCTTTGGGACGTCCTTTTTGCCCTTCTCCTCTGTGCGGTGCTGCTCAGTGCAGTTCAGGCCCCAGG  
CTGGCTGGCTGCAGCATGACTTTGGGCACCTGTCGGTCTTCAGCACCTCAAAGTGAACCATCTGCTACATCATT  
TTGTGATTGGCCACCTGAAGGGGGCCCCGCCAGTTGGTGGAAACCACATGCACCTCCAGCACCATGCCAAGCCCA  
ACTGCTTCCGCAAAGACCCAGACATCAACATGCATCCCTTCTTCTTTGCCCTGGGGAAGATCCTCTCTGTGGAGC  
TTGGGAAACAGAAGAAAAATATATGCCGTACAACCACCAGCACAAATACTTCTCCTAATTGGGCCCCCAGCCT  
TGCTGCCTCTCTACTTCCAGTGGTATATTTTCTATTTTGTATCCAGCGAAAGAAGTGGGTGGACTTGGCCTGGA  
TGATTACCTTCTACGTCCGCTTCTTCTCACTTATGTGCCACTATTGGGGCTGAAAGCCTTCTGGGCCCTTTTCT  
TCATAGTCAGGTTCTTGGAAAGCAACTGGTTTGTGTGGGTGACACAGATGAACCATATTCCCATGCACATTGATC  
ATGACCGGAACATGGACTGGGTTCACCCAGCTCCAGGCCACATGCAATGTCCACAAGTCTGCCTTCAATGACT  
GGTTCAGTGGACACCTCAACTTCCAGATTGAGCACCATCTTTTCCCACGATGCCTCGACACAATTACCACAAAG  
TGGCTCCCTGGTGCAGTCTTGTGTGCCAAGCATGGCATAGAGTACCAGTCCAAGCCCCCTGCTGTCAGCCTTCG  
CCGACATCATCCACTCACTAAAGGAGTCAGGGCAGCTCTGGCTAGATGCCTATCTTCACCAATTAACAACAGCCAC  
CCTGCCCAGTCTGGAAGAAGAGGAGGAAGACTCTGGAGCCAAGGCAGAGGGGAGCTTGAGGGACAATGCCACTAT  
AGTTTAATACTCAGAGGGGGTGGGTTTGGGGACATAAAGCCTCTGACTCAAACCTCCTCCCTTTTATCTTCTAGC  
CACAGTTCCTAAGACCCAAAGTGGGGGGTGGACACAGAAGTCCCTAGGAGGGAAGGAGCTGTTGGGGCAGGGGTGT  
AAATTATTTCTTTTTCTAGTTTGGCACATGCAGGTAGTTGGTGAACAGAGAGAACCAGGAGGGTAACAGAAGAG  
GAGGGACCTACTGAACCCAGAGTCAGGAAGAGATTTAACACTAAAATTCCACTCATGCCGGGCGTGGTGGCACGC  
GCCTGTAATCCCAGCTACCCAGGAGGCTGAGGCGAGGAATCGCTTGAACCGGGGAGGTGGAGGTTGCAGTGAGC  
TGAGATCACGCCATTGTACTCCAGCCTGGGCGACAGAGCAAGACTCCATTTCAAAAAAAAAAAAAAAAAATCCACTC  
ATATAAAGGTGAGCTCAGCTCACTGGTCCATTTCTCAGTGGCTTCTCCATCCTCATTGCAAACCTCAGAGGGA  
TAAGGCAGTTGAACCTGATGAGCAAGAATTATAACAGCAAGGAAACATTAATGCTTAGAATTCTGAGATCCAGCA  
CAACTCAGTCTGTGGGAGCTCAGCTCGCTGCCAGGGATAGGTATGACCTATGTCTGCCTTAGGCTGCTGGGAGA  
TGCCATTCTCCAGTTTCAGAAGCAGGCAGGGCAAAGGTCAAGACTGTGGTATTGGGGTCTTTTGGCTCTGAAGGA  
TCCTGGAACCACTGATTTTGGTTTATTCCCTCCAGGGTCTAAAGAGAACAAGAGGTGCTAGCTCTTACCAAAACA  
GATGGTAGAGAGAGTTGCTGGCTATTTAAAGCTCTTTTATCTTTTAAATTCACCTCTTCTTTTACCTCTTTAA  
CCACTCCTCAGGAACAGAACACTTCTAGGACTGGGGGTCTTTTAGCTCCATAAGCAAGTGAGCAGATGGGACAAG  
TTAGTCTTTTCTCCCTAGAAACAAGGGGATGCCAGTGGTTTCCCTTTGCTTCCCAACCTAAAATTTCAAGTTT  
AATAAAATAGCAATTAGCAGAAGTGACCAATTGGGAGATAATTATCAGTCAIGAGGAAAGACACAGATTTGGGT  
CATAAAGAATGTAAGGGCTATAAGTAGAACTTTCTATAACCTAAATGATGTTATAGAATTATTTTTGAGCAGGA  
GCAGAAAGATTAAATATGATCACTTCATACTTCTAAATCAGAAATAGGAAGATTAAACCACAGAACAGTTTGTG  
ATTTCTATTGCTGTAGCTAGGTATCTTACTCTGTCCACTCTTGTTCAAGTATCTAACTCTTCTGGAAACCAAATA  
GGCTTTAGAAGAGATTATCCTATATTCCTATCAGTATAATACTAAAATGTAACCTTTTAAATCATCTGGTTTTTAA  
AAGATAAACAGTTTAGCCCATCTCTCCAGAGAGCAAACATAGGAATATGACTCAGGAGCCTCCTAGGGCTTATCA  
TCAGCCCTCACACCCGCTTCCCCCTCCAACCCACAGCCTTTGCTTCCAGGTGGCAGGATTACTACTTTGCTCTT  
CAGCAGCATCTACTTAGGCATATTGATCATTTTAGACACTGGGAGAAGAGAACCTCAAACCTAGGAGGAAAAGAC  
AGAGCCTCCACTTAGTTTTGGGAGGGGATGGCAGACAGTCAAGGAGATGAGCGTCCTAAGGCATGTTGGGATAGG  
GTCAGATGCACCACCCATGGAGAGGTTTGTCAACACAAAGACATGGAAGGTTAGAGGTTTGTCAACAAAAAGACA  
TGGAAGGTTAGGTTTGTCAACACAAAGACATGGAAGATTAGAGGTTTGTCAACACAAAGACACAGGAAGAATGGG  
CTGCAGAAGATTAGATGTTTTCCATTGGGCACATTTTACTTAGCTGGAGAAGTGGTTTAAACAGCCTGGGT  
AGGAAAATTAGAAGCAAGCTGGATGCAGTGGCTCATGCCTGTAATCCCAACACTTTTGGGAGGTCCAGGCAGGAG  
GATCACTTGGGGCCAGGAGGTCAAGCCTGCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTGGGGTGATAGA

3525/6881  
**FIGURE 3251B**

ACAAGACCCTGTCTCAAAAAAAAAAAAAACAACAAAACTTAGAATTGAGGAGTTGTACCTCCATTGGCTTCCT  
CACTCCAAAATAGGTGCTGATCCTTCCTATTCTATTCTTTGCCACCTTTTGGGTGTGGTGTACCAGCCTGTTT  
AGCCAAGTAGCTTTGGGCATAGGCTGCCCAATCTGAGCAAACACCAGTGAGGCTCTATTGAGCCAAGACCAAGTC  
CTCAAAGCACCTGAACCACTGTGGCCTTCTCAGCCTACAGCAGTGTTGGTCTCTTACATGGCCACAAAGGGACACA  
CAGTGACAAAAGGCTCGGAATGTTACAATGGTAAATGAGTGATCTCAAATCCACTGACAGATATAAAATAGGCT  
TAGAGAGGAAAAGCTGCCTCTGGTCAAGTAGATCATGGCAGCATGAATTCCAACCTCACTTTTTTACAACCTCAAC  
TTCTATGTTTATCTTTGTTACTTTCACCTTTTTTACAACCTGGCCAGAGGCATTTTTTAAATCAGGCCCAATATCA  
GTATTCTTTTGTGTGTGCCAATTTGTTATCACATCCCTATGAAGTTGAAAAATAAGTTAATTTTGACCAAAA  
AAAAAAAAAAAAAG

3526/6881  
**FIGURE 3252**

MAPDPVAAETAAGPTPRYFTWDEVAQRSGCEERWLVIDRKVYNISEFTRRHPPGGSRVISHYAGQDATDPFVAFH  
INKGLVKKYMNSLLIGELSPEQFSFEPTKNKELTDEFRELRATVERMGLMKANHVFLLYLLHILLDDGAAWLTL  
WVFGTSFLPFLLCAVLLSAVQAQAGWLQHDGHLSTKWNHLLHHFVIGHLKGAPASWWNHMHFQHHAKPNC  
FRKDPDINMHFFFFALGKILSVELGKQKKKYPYNHGHKYFFLIGPPALLPLYFQWYIFYFVIQRKKWVDLAWMI  
TFYVRFFLTIVPGLGLKAFGLFFIVRFLESNWFVWVTQMNHHPMHIDHNRNMDWVSTQLQATCNVHKSAFNDWF  
SGHLNFQIEHHLFPTMPRHNHKKVAPLVQSLCAKHGIEYQSKPLLSAFADIIHSLKESGQLWLDAYLHQ

3527/6881  
**FIGURE 3253**

AGTCCTGCGATTTCGGGTGTAGAGGGAGCAGGGGCTGCGGGACCTGGTGTGGGTGGAGTGGGGACAAGCGGTG  
GAGAAGGGTACGCCAGGGTCGCTGAGAGACTCTGTTCTCCCTGGAGGGACTGGTTGCCATGAGAGCAGCCGTCTG  
AGGGGACGCAGCCTGCACTACGCGCCCCAAGAGGCTGTGCGTGGCGAGCAGGTCACGTGACGGGAGCGCGGGCTT  
TGGAAGGCGGCTGAACGTGAGGCCACCCGCCGCTAAGCTGAGAAGGGAGAGCGAGCTTAGGACCGCTGCCCGGG  
GCAACCCCGAACCAAGCTTTAGCCGCCGAGGCCGCGTGTCCCAAAGGCCAGTCATCCCTCCTCTGTGTTGCC**ATG**

GGAATTCAAGGCCTGGCCAACTAATTGCTGATGTGGCCCCCAGTGCCATCCGGGAGAATGACATCAAGAGCTAC  
TTTGGCCGTAAGGTGGCCATTGATGCCTCTATGAGCATTTATCAGTTCTTGATTGCTGTTCCGCCAGGGTGGGGAT  
GTGCTGCAGAAATGAGGAGGGTGAGACCACCAGCCACCTGATGGGCATGTTCTACCGCACCATTGCGATGATGGAG  
AACGGCATCAAGCCCGTGTATGTCTTTGATGGCAAGCCGCCACAGCTCAAGTCAGGCGAGCTGGCCAAACGCAGT  
GAGCGGGGGCTGAGGCAGAGAAGCAGCTGCAGCAGGCTCAGGCTGCTGGGGCCGAGCAGGAGGTGAAAAATTC  
ACTAAGCGGCTGGTGAAGGTCACTAAGCAGCACAAATGATGAGTGCAAACATCTGCTGAGCCTCATGGGCATCCCT  
TATCTTGATGACCCAGTGAGGCAGAGGCCAGCTGTGCTGCCCTGGTGAAGGCTGGCAAAGTCTATGCTGCGGCT  
ACCGAGGACATGGACTGCCTCACCTTCGGCAGCCCTGTGCTAATGCGACACCTGACTGCCAGTGAAGCCAAAAAG  
CTGCCAATCCAGGAATTCCACCTGAGCCGGATTCTGCAGGAGCTGGGCCTGAACCAGGAACAGTTTGTGGATCTG  
TGCATCCTGCTAGGCAGTGACTACTGTGAGAGTATCCGGGGTATTGGGCCCAAGCGGGCTGTGGACCTCATCCAG  
AAGCACAAGAGCATCGAGGAGATCGTGCGGCGACTTGACCCCAACAAGTACCCTGTGCCAGAAAATTGGCTCCAC  
AAGGAGGCTCACCAGCTCTTCTTGAACCTGAGGTGCTGGACCCAGAGTCTGTGGAGCTGAAGTGGAGCGAGCCA  
AATGAAGAAGAGCTGATCAAGTTCATGTGTGGTGAAGAGCAGTTCTCTGAGGAGCGAATCCGCAGTGGGGTCAAG  
AGGCTGAGTAAGAGCCGCCAAGGCAGCACCCAGGGCCGCTGGATGATTTCTTCAAGGTGACCGGCTCACTCTCT  
TCAGCTAAGCGCAAGGAGCCAGAACCCAAAGGGATCCACTAAGAAGAAGGCAAAGACTGGGGCAGCAGGGAAGTTT  
AAAAGGGGAAAA**TAA**ATGTGTTTCCCCATTATACCTCCTTCACCCCAAGATATTTGCCGTCTTGTACCTTAAGA  
GCTACAGCTAGAGAAACCTTCACGGGGTGGAGAGAGGATTCTAAGGCTTTTCTAGCGTGACCCTTTTAGTAGTG  
CTAGTCCCTTTTTTACTTGATCTTAATGGCAAGAAGGCCACAGAGGTAATTTTCTTTTCTAGCTCAGGAAAAATA  
TGTCAGGCTCAAACCACTTCTCAGGCAGTTTAAATGGACACTAAGTCCATTGTTACATGAAAGTGATAGATAGCAA  
CAAGTTTTGGAGAAGAGAGAGGGAGATAAAAGGGGGAGACAAAAGATGTACAGAAATGATTTCTGGCTGGCCAA  
CTGGTGGCCAGTGGGAGGTGATGGTGGACCTAGACTGTGCTTTTCTGCTTGTTTCAGCCTTGACCCACCTTGAGA  
GAGAGCCACCAGGAAGGCGCATCTTAGCAGATGGGAGGAAGTGTGAGAGAAGATGGGCAGAAAGCTGGAGCCCC  
TGGAGTTGGCTGTGCTGTGTTTGTGACTGATTACTGGCTGTGCTTGGGTGGGCAGAAACTCGAAGTTGCTATG  
TAATTTGTGTCTAGTTATTAGAGGAGTAAGATGGTGTGTTACCTGGCAATCAGCTGAGTTGAGACTTTGGAA  
TAAGACACTGGTTTTTCATGCGCTGTTTTTGTGTTTAAAGTTATGAAGAAAAAGTCAATAAAATTCTAAAGTAAA  
AAAAAAAAAAAAAAAA

3528/6881  
**FIGURE 3254**

MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIYQFLIAVRQGGDVLQNEEGETTSHLMGMFYRTIRMM  
ENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQAAGAEQEVEKFTKRLVKVTKQHNDCKHLLSLMGI  
PYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQEFHLSRILQELGLNQEQQVD  
LCILLGSDYCESIRGIGPKRAVDLIQKHKSIEEIVRRLDPNKYPVPENWLHKEAHQLFLEPEVLDPESVELKWSE  
PNEEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSTQGRLLDFFKVTGSLSSAKRKEPEPKGSTKKKAKTGAAGK  
FKRGK

3529/6881  
**FIGURE 3255**

CAGGTGACCAGCGCCATGTCCAGCCAGGTGGTGGGCATTGAGCCTCTCTACATCAAGGCAGAGCCGGCCAGCCCT  
GACAGTCCAAAGGGTTCCCTCGGAGACAGAGACCGAGCCTCCTGTGGCCCTGGCCCTGGTCCAGTCCCACTCGC  
TGCTCCAGGCCACAAGGAAGAGGAGGATGGGGAGGGGGCTGGGCCTGGCGAGCAGGGCGGTGGGAAGCTGGTG  
CTCAGTCCCTGCCCAAGCGCCTCTGCCTGGTCTGTGGGGACGTGGCCTCCGGCTACCACTATGGTGTGGCATCC  
TGTGAGGCCTGCAAAGCCTTCTTCAAGAGGACCATCCAGGGGAGCATCGAGTACAGCTGTCCGGCCTCAACGAG  
TGTGAGATCACCAAGCGGAGACGCAAGGCCTGCCAGGCCTGCCGCTTCACCAAGTGCCTGCGGGTGGGCATGCTC  
AAGGAGGGAGTGGCCTGGACCGCTCCGGGGTGGGCGGCAGAACTACAAGCGGCGGCCGGAGGTGGACCCACTG  
CCCTTCCCGGGCCCCCTTCCCTGCTGGGCCCCCTGGCAGTCGCTGGAGGCCCCCGGAAGACAGCAGCCCCAGTGAAT  
GCACTGGTGTCTCATCTGCTGGTGGTTGAGCCTGAGAAGCTCTATGCCATGCCTGACCCGCGAGGCCCTGATGGG  
CACCTCCAGCCGTGGCTACCTCTGTGACCTCTTTGACCGAGAGATTGTGGTCACCATCAGCTGGGCCAAGAGC  
ATCCAGGCTTCTCATCGCTGTGCTGTCTGACCAGATGTCACTACTGCAGAGCGTGTGGATGGAGGTGCTGGTG  
CTGGGTGTGGCCAGCGCTCACTGCCACTGCAGGATGAGCTGGCCTTCGCTGAGGACTTAGTCCTGGATGAAGAG  
GGGGCACGGGCAGCTGGCCTGGGGGAAGTGGGGGCTGCCCTGCTGCAACTAGTGCGGCGGCTGCAGGCCCTGCGG  
CTGGAGCGAGAGGAGTATGTTCTACTAAAGGCCTTGGCCCTTGCCAATTCAGACTCTGTGCACATCGAAGATGCC  
GAGGCTGTGGAGCAGCTGCGAGAAGCTCTGCACGAGGCCCTGCTGGAGTATGAAGCCGGCCGGGCTGGCCCCGGA  
GGGGGTGCTGAGCGGCGGGCGGGCGGGCAGGCTGCTGCTCACGCTACCGCTCCTCCGCCAGACAGCGGGCAAAGTG  
CTGGCCCATTTCTATGGGGTGAAGCTGGAGGGCAAGGTGCCCATGCACAAGCTGTTCTTGGAGATGCTCGAGGCC  
ATGATGGACTGAGTGCAAGGGGTGGGACTGGTGGGGTTCTGGCAGGACCTGCCTAGCATGGGGTCAGCCCCAAG  
GGCTGGGGCGGAGCTGGGGTCTGGGCAGTGCCACAGCCTGCTGGCAGGGCCAGGCAATGCCATCAGCCCCTGGGA  
ACAGGCCCCACGCCCTCTCCTCCCCCTCCTAGGGGGTGTGAGAAGCTGGGAACGTGTGTCCAGGCTCTGGGCACA  
GTGCTGCCCCCTTGCAAGCCATAACGTGCCCCCAGAGTGTAGGGGGCCTTGCGGAAGCCATAGGGGGCTGCACGGG  
ATGCGTGGGAGGCAGAAACCTATCTCAGGGAGGGAAGGGGATGGAGGCCAGAGTCTCCAGTGGGTGATGCTTTT  
GCTGCTGCTTAATCCTACCCCCCTTTCAAAGCAGAGTGGGACTTGGAGAGCAAAGGCCATGCCCCCTTCGCTCC  
TCCTCTCATCATTTGCATTGGGCATTAGTGTCCCCCTTGAAGCAATAACTCCAAGCAGACTCCAGCCCCTGGAC  
CCCTGGGGTGGCCAGGGCTTCCCATCAGCTCCAACGAGCCTCCTCAGGGGGTAGGAGAGCACTGCCTCTATGC  
CCTGCAGAGCAATAACACTATATTTATTTTTTGGGTTTGGCCAGGGAGGCGCAGGGACATGGGGCAAGCCAGGGCC  
CAGAGCCCTTGAAGTGTACAGAGACTCTATTTTAAATGTATATTTGCTGCAAAGAGAAACCGCTTTTGGTTTTAAAC  
CTTTAATGAGAAAAAATATATAATACCGAGCTC



3530/6881  
**FIGURE 3256**

CACGGGCGGGGCGGGGCTGGGTCCACCGGGTCTGAGGGGAGACTGAGGTCCTGAGCCGACAGCCTCAGCTCC  
CTGCCAGGCCAGACCCGGCAGACAGATGAGGGCCAGGAGGCCTGGCGGGCCTGGGGGCGCTACGGTGGGAGAGG  
AAGCCAGGGGTACCTGCCTCTGCCTTCCAGGGCCACCGTTGGCCCCAGCTGTGCCTTGACTACGTAAACATCTTGT  
CCTCACAGCCCAGAGCATGTTCCAGATCCCAGAGTTTGAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAG  
GGGCTGGGCCCCAGCCCCGACGGGGACGGGGCCCTCAGGCTCCGCAAGCATCATCGCCAGGCCCCAGGCCTCCT  
GTGGGACGCCAGTCACCAGCAGGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCG  
GAGTCGCCACAGCTCCTACCCCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCAGCCCCCTTCGGGG  
CCGCTCGCGCTCGGCGCCCCCAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGA  
GTTTGTGGACTCCTTTAAGAAGGGACTTCCTCGCCGAAGAGCGCGGGCACAGCAACGCAGATGCGGCAAAGCTC  
CAGCTGGACGCGAGTCTTCCAGTCCTGGTGGGATCGGAACCTGGGCAGGGGAAGCTCCGCCCCCTCCAGTAGAC  
TTCGCTCCACATCCCGAACTCCACCCGTTCCCACTGCCCTGGGCAGCCATCTTGAATATGGGCGGAAGTACTTC  
CCTCAGGCCTATGCAAAAAGAGGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCGGGTGC  
GTGTGAAGCCACGGAAGGCTTGGTCCCATCGGAAGTTTGGGTTTTCGCCCACAGCCGCCGGAAGTGGCTCCGT  
GGCCCCGCCCTCAGGCTCCGGGCTTCCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGTTTAACCGTTGCGTCA  
CCGGGACCCGAGCCCCCGCGATGCCCTGGGGGCGTGCTCACTACCAAATGTTAATAAAGCCCGCTCTGTGCCG  
CC

3531/6881  
**FIGURE 3257**

MFQIPEFEPSEQEDSSSAERGLGPSPAGDGPSSGSKHHRQAPGLLDASHQQEQPTSSSHGGAGAVEIRSRHSS  
YPAGTEDDEGMGEEPPFRGRSRSAAPPNLWAAQRYGRELRRMSDEFVDSFKKGLPRPKSAGTATQMRQSSSWTRV  
FQSWWDRNLGRGSSAPSQ

3532/6881  
**FIGURE 3258**

GAGCCCGGGTGCTGGAGGGAGGCGGCAGGCCCGGGTCAGGTGCCTCGAGATCGGGCTTGGGCCCAGAGCATGTT  
CCAGATCCCAGAGTTTGTAGCCGAGTGAGCAGGAAGACTCCAGCTCTGCAGAGAGGGGCCTGGGCCCCAGCCCCGC  
AGGGGACGGGCCCTCAGGCTCCGGCAAGCATCATCGCCAGGCCCCAGGCCTCCTGTGGGACGCCAGTCAACAGCA  
GGAGCAGCCAACCAGCAGCAGCCATCATGGAGGCGCTGGGGCTGTGGAGATCCGGAGTCGCCACAGCTCCTACCC  
CGCGGGGACGGAGGACGACGAAGGGATGGGGGAGGAGCCCAGCCCCCTTTCGGGGCCGCTCGCGCTCGGCGCCCCC  
CAACCTCTGGGCAGCACAGCGCTATGGCCGCGAGCTCCGGAGGATGAGTGACGAGTTTGTGGACTCCTTTAAGAA  
GGGACTTCCTCGCCCGAAGAGCGCGGGCACAGCAACGCAGATGCGGCAAAGCTCCAGCTGGACGCGAGTCTTCCA  
GTCCTGGTGGGATCGGAACCTTGGGCAGGGGAAGCTCCGCCCCCTCCCAGTGACCTTCGCTCCACATCCCGAAACT  
CCACCCGTTCCTACTGCCCTGGGCAGCCATCTTGAATATGGGCGGAAGTACTTCCCTCAGGCCTATGCAAAAAGA  
GGATCCGTGCTGTCTCCTTTGGAGGGAGGGCTGACCCAGATTCCCTTCCGGTGCGTGTGAAGCCACGGAAGGCTT  
GGTCCCATCGGAAGTTTTGGGTTTTCCGCCACAGCCGCCGGAAGTGGCTCCGTGGCCCCGCCCTCAGGCTCCGG  
GCTTTCCCCCAGGCGCCTGCGCTAAGTCGCGAGCCAGGTTTAAACCGTTGCGTCACCGGGACCCGAGCCCCCGCGA  
TGCCCTGGGGGCCGTGCTCACTACCAAATGTTAATAAAGCCCGCGTCTGTGCCGCC

3533/6881  
**FIGURE 3259**

MFQIPEFEPSEQEDSSSAERGLGPSPAGDGPSGSGKHHRQAPGLLDASHQQEQPTSSSHHGGAGAVEIRSRHSS  
YPAGTEDDEGMGEEPSPFGRGRSAPPNLWAAQRYGRELRMSDEFVDSFKKGLPRPKSAGTATQMRQSSSWTRV  
FQSWWDRNLGRGSSAPSQ

3534/6881  
**FIGURE 3260**

GGCGAGGAAGGGGCGGGAGCCGGGTCCCGGTAGCTTCTAGTAGGTTCCAGAAGGCGGCGCTGCGGTTGGGAAC  
GCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCAATGAGCTGAAGGAG  
AAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAGCTATTAAGCTGGAT  
CCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACCAGAAGGCTTATGAG  
GATGGCTGCAAGACTGTCGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAGCAGCTCTAGAGTTC  
TTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATAACCTCAACTGAAA  
GAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCTTTCAACATGCCTAATCTGTAT  
CAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGCTGATAGAGCAGCTA  
CGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCAGCGTCCTCCTTGGG  
GTGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTCCCAAAAAGGAGACC  
AAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAGAGCTGGGGAACGAT  
GCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGGACCCCACTAACATG  
ACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGGAGCTTTGTGAGAAG  
GCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTCGAATTGGCAACTCC  
TACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGCACCGAACCCAGAT  
GTGCTCAAGAAATGCCAGCAGG

3535/6881

## FIGURE 3261

GGCACGAGGGCAGTCGGCCCTGCCTCCCGGACCACCCTGCGGGGCGCACCA<sup>3</sup>CCGATCTGGGGTGCGGGGCTCGG  
CCTCCCTGCGCTCCTGGCTGACGGTGTGACCTTGGGACCGAGACGTGCAGCTGTCCAAGGCTCTGTCCTATGCCC  
TGCGCCATGGGGCCTTGAAGCTGGGGCTTCCCATGGGAGCTGATGGCTTCGTGCCCCTGGGCACCCTCCTGCAGT  
TGCCCCAGTTCCGCGGCTTCTCTGCTGAAGATGTGCAGCGCGTGTTGGACACCAATAGGAAGCAGCGGTTGCCC  
TGCAGCTGGGCGATCCCAGCACTGGCCTTCTCATCCGGGCCAACCAGGGCCATTCCCTGCAGGTACCTAAGTTGG  
AGCTGATGCCCCTGAGACACCGCAGGCCCTGCCCCGATGCTAGTCCATGGTACATTCTGGAAGCACTGGCCAT  
CCATCCTACTCAAAGGCCCTGTCCTGCCAGGGAAGGACGCACATTACCTGGCCCCAGGACTGCCTGGAGACCCG  
GTATCATCAGTGGCATGCGGTCCCATTTGTGAAATAGCTGTGTTTCATCGATGGACCCCTGGCTCTGGCAGATGGAA  
TACCCTTCTTCGCTCTGCCAATGGGGTGATTCTGACTCCAGGGAATACTGATGGCTTCCTCCTTCCCAAGTACT  
TCAAGGAGGCCCTGCAGCTACGCCCTACCCGAAAGCCCCTTTCCTTGGCTGGTGATGAAGAGACAGAGTGTGAGA  
GTAGCCCCAAGCACAGCTCCAGAGAAAGGAGGAGGATCCAACATAAAATATTAATTTATAAAAAAGAAATTTTA  
AAAAGTAACAAGAAAGAACTCGTTTGAAACCATGTTTCATCATCCTGTAAAAAAAAAAAAAAAAAAAAA

3536/6881 - ...  
**FIGURE 3262**

MGADGFVPLGTLLQLPQFRGFS AEDVQRVVD TNRKQRFALQLGDPSTGLLIRANQGHSLQVPKLELMPLETPQAL  
PPMLVHGTFWKHWPSILLKGLSCQGRTHIHLAPGLPGDPGIISGMRSHCEIAVFIDGPLALADGIPFFRSANGVI  
LTPGNTDGFLLPKYFKEALQLRPTRKPLSLAGDEETECQSSPKHSSRERRRIQQ

3537/6881  
**FIGURE 3263**

AGACAGACCCCGTGC GGCTGACACAGCTGTATGAGCAGGCCCGGTGGGACCTGCTGCTGGAGGAGATTGACTGCA  
CCGAGGAGGAGATGATGGTGT TTGCGGCCCTGCAGTACCACATCAACAAGCTGTCCAGAGCGGGGAGGTGGGGG  
AGCCGGCTGGCACAGACCCAGGGCTGGACGACCTGGATGTGGCCCTGAGCAACCTGGAGGTGAAGCTGGAGGGGT  
CGGCGCCACAGATGTGCTGGACAGCCTCACCACCATCCCAGAGCTCAAGGACCATCTCCGAATCTTTCGGCCCC  
GGAAGCTGACCTGAAGGGCTACCGCCAACACTGGGTGGTGTTC AAGGAGACCACACTGTCTACTACAAGAGCC  
AGGACGAGGCCCTGGGGACCCCATTCAGCAGCTCAACCTCAAGGGCTGTGAGGTGGTTCCCGATGTTAACGTCT  
CCGGCCAGAAGTTCTGCATTAAACTCCTAGTGCCCTCCCTGAGGGCATGAGTGAGATCTACCTGCGGTGCCAGG  
ATGAGCAGCAGTATGCCCCTGGATGGCTGGCTGCGCCTGGCCTCCAAAGGCCGCACCATGGCCGACAGCAGCT  
ACACCAGCGAGGTGCAGGCCATCCTGGCCTTCCTCAGCCTGCAGCGCACGGGCAGTGGGGGCCCGGGCAACCACC  
CCCACGGCCCTGATGCCTCTGCCGAGGGCCTCAACCCCTACGGCCTCGTTGCCCGGTTTCCAGCGAAAGTTCA  
AGGCCAAGCAGCTCACCCACGGATCCTGGAAGCCCACCAGAATGTGGCCAGTTGTGCTGGCAGAGGCCAGC  
TGCGCTTCATCCAGGCCTGGCAGTCCCTGCCCCGACTTCGGCATCTCCTATGTCATGGTCAGGTTCAAGGGCAGCA  
GGAAAGACGAGATCCTGGGCATCGCCAACAACCGACTGATCCGCATCGACTTGGCCGTGGGCGACGTGGTCAAGA  
CCTGGCGTTTCAGCAACATGCGCCAGTGGAATGTCAACTGGGACATCCGGCAGGTGGCCATCGAGTTTGATGAAC  
ACATCAATGTGGCCTTCAGCTGCGTGTCTGCCAGCTGCCGAATTGTACACGAGTATATCGGGGGCTACATTTTCC  
TGTCGACGCGGGAGCGGGCCCGTGGGGAGGAGCTGGATGAAGACCTCTTCTGCAGCTACCGGGGGCCATGAGG  
CCTTCTGAGGGCTGTCTGATTGCCCTGCCCTGCTCACCACCTGTCACAGCCACTCCCAAGCCCACACCCACAGG  
GGCTCACTGCCCCACACCCGCTCCAGGCAGGCACCCAGCTGGGCATTTCACCTGCTGTCACTGACTTTGTGCAGG  
CCAAGGACCTGGCAGGGCCAGACGCTGTACCATACCCAGGCCAAGGATGGGGGTGGGGTCCCTGAGCTCATGT  
GGTGCCCCCTTTCTTGTCTGAGTGGCTGAGGCTGATACCCCTGACCTATCTGCAGTCCCCCAGCACACAAGGAA  
GACCAGATGTAGCTACAGGATGATGAAACATGGTTTCAAACGAGTTCTTCTTGTTACTTTTTAAATTTCTTTT  
TTATAAATTAATATTTTATTGTTGG



3538/6881  
**FIGURE 3264**

GGCTACGGCTGACCGTTTTTTGTGGTGTACTCCGTGCCATCATGTCCTGACGCCGCTGCTGCTGCGGGGCT  
TGACAGGCTCGGCCCCGGCGGCTCCCAGTGCCGCGCGCCAAGATCCATTTCGTTGCCGCCGAGGGGAAGCTTGGGA  
TCATGGAATTGGCCGTGGGCTTACCTCCTGCTTCGTGACCTTCCTCCTGCCAGCGGGCTGGATCCTGTCACACC  
TGGAGACCTACAGGAGGCCAGAGTGAAGGGGTCCGTTCTGTCCCTCACACTGTGACCTGACCAGCCCCACCGGCC  
CATCCTGGTCATGTTACTGCATTTGTGGCCGGCCTCCCCTGGATCATGTCATTCAATTCCAGTCACCTCTTCTGC  
AATCATGACCTCTTGATGTCTCCATGGTGACCTCCTTGGGGGTCCTGACCCTGCTTGGTGGGGTCCCCCTTGTA  
ACAATAAATCTATTTAACTTT

3539/6881  
**FIGURE 3265**

MSVLTPLLRLGLTGSARRLPVPRAKIHSLPPEGKLGIMELAVGLTSCFVTFLLPAGWILSHLETYRPE

3540/6881  
**FIGURE 3266**

AATTGGCAACCCGGAAGCGGTCTGGTAGTGCGGCGCTGTTTAAAGATGGCGCGGAGGAACCTCAGCAGCAGAAGC  
AGGAGCCGCTGGGCAGCGACTCCGAAGGTGTTAACTGTCTGGCCTATGATGAAGCCATCATGGCTCAGCAGGACC  
GAATTCAGCAAGAGATTGCTGTGCAGAACCTCTGGTGTCTCAGAGCGGCTGGAGCTCTCGGTCTATACAAGGAGT  
ATGCTGAAGATGACAACATCTATCAACAGAAGATCAAGGACCTCCACAAAAGTACTCGTACATCCGCAAGACCA  
GGCCTGACGGCAACTGTTTCTATCGGGCTTTCGGATTCTCCCACTTGGAGGCACTGCTGGATGACAGCAAGGAGT  
TGCAGCGGTTCAAGGCTGTGTCTGCCAAGAGCAAGGAAGACCTGGTGTCCCAGGGCTTCACTGAATTCACAATTG  
AGGATTTCCACAACACGTTTCATGGACCTGATTGAGCAGGTGGAGAGGCAGACCTCTGTCTGCCGACCTGCTGGCCT  
CCTTCAATGACCAGAGCACCTCCGACTACCTTGTGGTCTACCTGCGGCTGCTCACCTCGGGCTACCTGCAGCGCG  
AGAGCAAGTTCTTCGAGCACTTCATCGAGGGTGGACGGACTGTCAAGGAGTTCTGCCAGCAGGAGGTGGAGCCCA  
TGTGCAAGGAGAGCGACCACATCCACATCATTGCGCTGGCCAGGCCCTCAGCGTGTCCATCCAGGTGGAGTACA  
TGGACCGCGGCGAGGGCGGCACCACCAATCCGCACATCTTCCCTGAGGGCTCCGAGCCCAAGGTCTACCTTCTCT  
ACCGGCTGGACACTACGATATCCTCTACAAATAGGGCTGGCTCCAGCCCGCTGCTGCCCTGCTGCCCCCTCTG  
CCAGGCGCTAGACATGTACAGAGGTTTTTCTGTGGTTGTAAATGGTCCTATTTACCCCCCTTCTTCTGTACAT  
GACCCCCCCCCATGTTTTATTAAAGGGGGTGTGGTGGTGAGCCGTGTGTGCGTGTCCCTGCTCTGCTGCCCCGCC  
TGGCTGCTCTGTCTGCTGCCCCCTCCCCCAGGTGGGTCCCCCTGCTTTTACCTATCTACTCTGAGCTTCCCC  
AACAGGAGCAGGTTTGAGGGGCCAGGCCTCTTGGAGGCCCTCCTGCTTCGTTGGGTTCCTGCTTCCTTCCCTTCT  
TAGCTGGCTCAGGGGCTTCTATGGGATCCTGGAAGTTTCCTAGGGACTTGCCCAGGGTCCCAGGGCCACCCACAC  
TTCATCTGCTCCCTCATAGGCCCCACCTCCACGTCCCGGCTGGGCCCCAGACCCAGCTTCCTGCCCTCCACCGG  
GAGTCTGCATGGTTGGGAGTCCTGGGTGGAGGGGCCCTTTGTGAGGCTGGACCCGGCTCAGGGCAGGTGGAGGAGC  
TGGGCTCCCACAGGTGCCCGGCAGTGCCATCCTGGTGGGGGAGGGCAGCCTTCAAACGTGTGGGGTCTACAG  
TCCTCAGGTCTAGGCAGGGCAGCCGTTCTCCACCTCCCCATCCGCCCCAGGCCCCCTGCCTGTGCCTGCCTTGC  
ACCCCTCTGCTTGGGCCACGGTGTCTCTGCATTGCCTGCCTTTTGCCTTCACCTCTTTTCTCCCCGCCCCCT  
GCACATTCGGGTCTCAGCCCCAGGCTGTGAGCTCCTTGGGGCAGGCCCTCAATAAATGTGAAGTGTGCTGCTGC  
CGCCAAAAAAAAAAAAAAAAAA

3541/6881  
**FIGURE 3267**

MAAEPPQQKQEPLGSDSEGVNCLAYDEAIMAQDRIQQEIAVQNPLVSRLELSVLYKEYAEDDNIYQQKIKDL  
HKKYSYIRKTRPDGNCIFYRAFGFSLLEALLDDSKELQRFKAVSAKSKEDLVSQGFTEFTIEDFHNTFMDLIEQVE  
RQTSVADLLASFNDQSTSDYLVVYLRLTSGYLQRESKFFEHFIEGGRTVKEFCQQEVPEPMCKESDHIHIALAQ  
ALSVSIQVEYMDRGEGETTNPHIFPEGSEPKVYLLYRPGHYDILYK

3542/6881  
**FIGURE 3268**

AGAGTGGGCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGTGCAGCCATGGCCCCAATCAAGGTGGGAGATGCC  
ATCCCAGCAGTGGAGGTGTTTGAAGGGGAGCCAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAG  
GGTGTGCTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCTGCCAGGGTTTGTGGAGCAG  
GCTGAGGCTCTGAAGGCCAAGGGAGTCCAGGTGGTGGCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAG  
TGGGGCCGAGCCACAAGGCGGAAGGCAAGGTTTCGGCTCCTGGCTGATCCCACTGGGGCCTTTGGGAAGGAGACA  
GACTTATTACTAGATGATTGCTGGTGTCCATCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAG  
GATGGCATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAGCCTGGCACCCAATATCATC  
TCACAGCTCTGAGGCCCTGGGCCAGATTACTTCCTCCACCCCTCCCTATCTCACCTGCCAGCCCTGTGCTGGGG  
CCCTGCAATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGGTTTGCGG

3543/6881  
**FIGURE 3269**

AAATGAAGTGC GCGCTGCGACACCTCCAGCCCACTCCGCGCCATTTCTCGCTTGGCCTAACGGTTCG  
GCCAATCCAGCGCGCATCAAGAAGGACTGAGGCTCCGCCAATCGGAGGCGCGCGATTTCGACCCCTTCGCCTCGG  
CCCGGCCCAATCCAGGCCCCGCCCCGCGCCCCCGCGCGTGCCTCTCTCTCCCTCTTTGTGC  
GTCTCGCGCCGCGCGCGCGCGCTGAGAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTCGGGTCCCTCCC  
CCCGGAGGCTTGC GAAGGAGAAGCCGCGCAGAGGAAAAGCAGGTGCCGCTGCTGCCCGGGGGCGCCATGG  
CGACCGGAGCGAACGCCACGCCGTTGGACTTCCCAAGTAAGAAGCGGAAGAGGAGCCGCTGGAACCAAGACACAA  
TGGAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATCCCCCTGGACTTACTCGAGAACAAGAAAGAGCTT  
ATATAGTGCAACTGCAGATAGAAGACCTGACTCGTAACTGCGCACAGGAGACCTGGGCATCCCCCTAACCCCTG  
AGGACAGGTCCCCTTCCCCTGAGCCCATCTACAATAGCGAGGGGAAGCGGCTTAACACCCGAGAGTTCCGCACCC  
GCAAAAAGCTGGAAGAGGAGCGGCACAACCTCATCACAGAGATGGTTGCACTCAATCCGGATTCAAGCCACCTG  
CAGATTACAAACCTCCAGCAACACGTGTGAGTGATAAAGTCATGATTCCACAAGATGAGTACCAGAAATCAACT  
TTGTGGGGCTGCTCATCGGGCCCAGAGGGAACACCCTGAAGAACATAGAGAAGGAGTGCAATGCCAAGATTATGA  
TCCGGGGGAAAGGGTCTGTGAAAGAAGGGAAGGTTGGGCGCAAAGATGGCCAGATGTTGCCAGGAGAAGATGAGC  
CACTTCATGCCCTGGTTACTGCCAATACAATGGAGAACGTCAAAAAGGCAGTGGAACAGATAAGAAAACATCCTGA  
AGCAGGGTATCGAGACTCCAGAGGACCAGAATGATCTACGGAAGATGCAGCTTCGGGAGTTGGCTCGCTTAAATG  
GGACCCCTCGGGAAGACGATAACAGGATCTTAAGACCCTGCGAGAGCTCAGAGACCCGAGCATTACCAACACCA  
CAGTGTGTACCAAGTGTGGAGGGGCTGGCCACATTGCTTCAGACTGTAAATTCCAAAGGCCTGGTGATCCTCAGT  
CAGTTCAGGATAAAGCACGGATGGATAAAGAATATTTGTCCCTCATGGCTGAAGTGGGTGAAGCACCTGTCCCAG  
CATCTGTGGGCTCCACCTTGGGCTGCCACCACACCCCTGCCCAGCGCACCTCGTCTGTGCTCCCCGCCAACA  
ACCCACCTCCACCGTCTCTCATGTCTACCAACCCAGAGCCGCCCACCCTGGATGAATTCTGGCCCTTCAGAGAGTC  
GGCCCTIACCACGGCATGCATGGAGGTGGTCTGGTGGGCCCCGAGGTGGCCCCCACAGCTTCCCACACCCATTAC  
CCAGCCTGACAGGTGGGCATGGTGGACATCCCATGCAGCACAACCCCAATGGACCCCCACCCCTTGGATGCAGC  
CACCACCACACCGATGAACAGGGCCCCCACCCTCCTGGGCACCATGGCCCTCCTCCAATGGATCAGTACCTGG  
GAAGTACGCCTGTGGGCTCTGGGGTCTATCGCCTGCATCAAGGAAAAGGTATGATGCCGCCACCACCTATGGGCA  
TGATGCCGCCGCCGCCGCCCTCCAGTGGGCAGCCCCCACCCTCCTCTGGTCTCTTCCCCCATGGCAAC  
AACAGCAGCAGCAGCCTCCGCCACCCCTCCGCCAGCAGCAGTATGGCTTCCAGTACCCCTTGCCATGGCAGC  
AAAATACGACGACTACCACCAGAGCGCTGGCACAGGGTCCATCCCGCCATGGCAACAGCAGCAGGCGGCTGCCG  
CAGCTTCTCCAGGAGCCCCCTCAGATGCAAGGCAACCCCACTATGGTGGCCCTGCCCCCGGGTCCAGCCGCTC  
TGCCGCCCTGGGGCCCCCTCCCCCTCCGCCCGTAGCATCGAGTGTCTTCTTTGTCTTCTTCTCTCCTCACCCAAC  
TCCCTTTGCCTCTCCCCAAACCGGGCGCCAGGATCCCTCCCCGCGGCGGCGATGGCCGAGCCATGAGAGTGAG  
GACTTTCGCGCCCATTTGGTGACCCCTCCAGGCAGACAGCCTCAGCAACGCCCTGGTGGACAGGATGGTTCCGGC  
AAAGCAGCCTGAGTTATTTTGTGGACGGAATCGGAACACGCTGGCTCCATATCGTGAAATTTTATTAAATTTT  
TTCTTTTCTCTTTGTTACTTCTTTATCTTTTCTTTCTTTCAGACTCCGTCCAAGGAGATGCTCTCCCGGTCTTC  
TGCTGCAATTTAGATTCTTTCCCTTCTCTCCAGTTCTCTTCCCTTACCAAGGAGAGGGGAGCAATGGTTTTG  
GGCAAGGGCTTTGGCCATTATGTCAAGCTGGTTGTGGGTTTTTCAAGGTGCCATAGCCACCCCAATATGTTT  
GTTTAAAGCGTGGGGTTTTTAAATCTCTGCCACCCTTGTCAAGGGAGTCTTGTAAGTTGCCGAGGGTAGGTTCA  
TCTCCAGGTTTCGGGATTCCCATCCGTCTGGCGATCCTGCCAGCAGTGGGTGGGCAGCCTGAGCTCCCTCGGGC  
TCGCTGCCAGCCTGGAGTTCTTCTGTGCTCCTTGATCACCTGAGCTGCCTCAGATTCCATTGGTCTCTCCT  
TCTTGAAGGCTTCCTTTTATGTTTTGTTTTAATCCCAATGTCTGAATGTTTTGCAGTGTGTAGGGGTTGAGC  
CCCTTGTTCAATCTCTCTCTTTTCTCTCCGCTTCCCTCTCCATGAAGTGATTCTGTTGACAATAATGTATACT  
GCGCGTTCTCTTCACTGGTTTATCTGCAGAAATTTCTCTGGGCTTTTTTCGGTGTAGATTCAACACTGCGCTAA  
AGCGGGGATGTTCCATTGAATAAAAGAGCAGTGTGGTTTTCTGGG

CGCGCGGGCCATGGCGCTGCTGCGGGATGTGTGCGTGCAGGACCGCGGACCGCTTCGAGTGTGCGAGCGGT  
GGGGGCCGGGACCTATGGCGACGTCTACAAGGCCCGCGACACGGTACGTCCGAACCTGGCCGCCGTGAAGATAGT  
CAAGCTAGACCCAGGGGACGACATCAGCTCCCTCCAGCAGGAAATCACCATCCTGCGTGAGTGCCGCCACCCCAA  
TGTGGTGGCCTACATTGGCAGCTACCTCAGGAATGACCGCTTGTGGATCTGCATGGAGTTCTGCGGAGGGGCTC  
CCTGCAGGAGATTACCATGCCACTGGGCCCTGGAGGAGCGGCAGATTGCGTACGTCTGCCGAGAGGCACTGAA  
GGGGCTCCACCACCTGCATTCTCAGGGGAAGATCCACAGAGACATCAAGGGAGCCAACCTTCTCCTCACTCTCCA  
GGGAGATGTCAAACCTGGCTGACTTTGGGGTGTGAGGCGAGCTGACAGCGTCTGTGGCCAAGAGGAGGTCTTTCA  
TGGGACTCCCTATCGATTGGCTCCCGAGGTGGCTGCTGTGGAGCGCAAAGGTGGCTACAATGAGCTATGTGACGT  
CTGGGCCCTGGGCATCACTGCCATTGAGCTGGGCGAGCTGCAGCCCCCTCTGTTCCACCTGCACCCCATGAGGGC  
CCTGATGCTCATGTGGAAGAGCAGCTTCCAGCGGCCCAAACCTGAGAGATAAGACTCGCTGGACCCAGAATTTCCA  
CCACTTTCTCAAACCTGGCCCTGACCAAGAATCCTAAGAAGAGGCCGACAGCAGAGAAGCTCCTGCAGCACCCGTT  
CAGGACTCAGCAGCTCCCTCGGGCCCTCCTCACACAGCTGCTGGACAAAGCCAGTGACCCTCATCTGGGGACCC  
CTCCCCTGAGGACTGTGAGCTGGAGACCTATGACATGTTTCCAGACACCATTCACTCCCCGGGGGACGACGCCCC  
AGCCGAGAGGACCCCTCGGAGATCCAGTTTACCAGGTGAAATTTGGCGCCCCACGCAGGAAGGAAACTGACCC  
ACTGAATGAGCCGTGGGAGGAAGAGTGGACACTACTGGGAAAGGAAGAGTTGAGTGGGAGCCTGCTGCAGTCGGT  
CCAGGAGGCCCTGGAGGAAAGGAGTCTGACTATTGCGTCAGCCTCAGAATTCAGGAGCTGGACTCCCCAGACGA  
TACCATGGGAACCATCAAGCGGGCCCCGTTCTAGGGCCACTCCCCACTGACCCTCCAACAGAGGAGCCTCTGTCT  
CAGTCCCCCAGGAACCTGCCCCACCTCCTTCAGGCCCCAACAGCTCCCCACTGCTGCCCACGGCCTGGGCCAC  
CATGAAGCAGCGGGAGGATCCTGAGAGGTCATCCTGCCACGGGCTCCCCCAACTCCCAAGGTGCATATGGGCGC  
CTGCTTCTCCAAGGTCTTCAATGGCTGCCCCCTGCGGATCCACGCTGCTGTACCTGGATTACCCCTGTTACTCG  
GGACCAGTTTCTGGTGGTAGGGGCCGAGGAAGGCATCTACACACTCAACCTGCATGAAGTGCATGAGGATACGCT  
GGAGAAGCTGATTTACATCGCTGCTCCTGGCTCTACTGCGTGAACAACGTGCTGCTGTCACTCTCAGGGAATC  
CACGCACATCTGGGCCCATGACCTCCCAGGCCTGTTTGAGCAGCGGAGGCTACAGCAACAGGTTCCCTCTCCAT  
CCCCACCAACCGCCTACCCAGCGCATCATCCCCAGGCGCTTGTCTGTGCCACCAAGATTCCTGACACCAAAGG  
CTGCTTGCAGTGTGCTGTGGTGCGGAACCCCTACACGGGTGCCACCTTCTGCTGGCGCGCTGCCACCCAGCCT  
GCTCCTGCTGCAGTGGTATGAGCCGCTGCAGAAGTTTCTGCTGCTGAAGAACTTCTCCAGCCCTCTGCCCAGCCC  
AGCTGGGATGCTGGAGCCGCTGGTGCTGGATGGGAAGGAGCTGCCGACGGTGTGTGTTGGGGCCGAGGGGCTGA  
GGGGCCCGGCTGCCGCGTCTGTTCCATGTCTTCCCCCTGGAGGCTGGCCTGACGCCCCGACATCCTCATCCCACC  
TGAGGGGATCCCAGGCTCGGCCACGAGGTGATCCAGGTGGACAGGGACACAATCCTAGTCAGCTTTGAACGCTG  
TGTGAGGATTGTCAACATGCAGGGCGAGCCACGGCCACACTGGCACCTGAGCTGACCTTTGATTTCCCCATCGA  
GAGCATTCCCACGTGACAACCCAGAGGCGCACAGCAACCTCTACATCCTCACGGGCCACCAGAGCCTACTAAGA  
GCAGCGGGCTGTCCAGGGGCTCCCCGCCCCACCCACGCCTTAGCTGCAGGCCCTTTTGGGCAAAGGGGCCCAT  
CCTAGACCAGTAGGAGGCCAGGCCCTGGCCCTGCTGGGGCTGAAGGTGAGAAGTAATCCTGAGAAATGTTTCAGGC  
CTGGGGAGGGAGGGGAGCCCCCGACGCCTCTGCAATAACTGGACCAGGGGAGCTGCTGTCACTCCCCCATCCCC  
GAGGCAGCCAGTCCCTAGTGCCCAAGGCAGGGACCTGGGCCTGGGCCATCCATCCATTTTGTCCACATTTT  
CTTTCTACTCTTTCTGCCAAGAGCCTGCCCTGCATTGTCTGCGAAACACGTTATTTAAGAGAGAACTATATT  
GGTATTAAAGCTGGTTTGT

3545/6881  
**FIGURE 3271**

GGCACCAGTCGGAGGGGCGGGGCTGGGAGGGGCTCCTCCCTACCGCCCCAATTCCGCCCTGCCCCCGCCGCGG  
GGCGCTAGCCGCCACTGAGGGACCGACCCTATAAAGCCGCTCCGCGAGGGGTGCGCAGCATTTCGGCAGAGGGCG  
CTTCGACGGGCTGGGCTGTGCGCCTGCGCAGTGTGGGTGCGTCCCATTCCCTGCCCCGGCCGGCCCCGCTCGG  
CTCCGCACCCTCGCCCCGCTCTCAGCCGCCGCTCTGCCCCGAGCAGCCAGCCCCGTGTCCGGCAGTATGTTTCA  
CTGGGTAGCAAGGATGCCCCGCCAAGAAGGAGCCGGAGCTCTTCAGACGGTGGGTGAGGGGCTGCGGCAGCT  
GTACGCGCAGAAGCTGTACCCCTGGAGGAGCACTACCGCTTCCACGAGTTCCACTCGCCCCGCTGGAGGACGC  
TGACTTCGACAACAAGCCTATGGTGTCTCTCGTGGGGCAGTACAGCACGGGCAAGACCACCTTCATCCGACACCT  
GATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCCGAGCCACCACCGACTCCTTCATCGCCGTCATGCACGG  
CCCCACTGAGGGCGTGGTGCCGGGCAACGCGCTCGTGGTGGACCCGCGCGCCCCCTTCCGCAAGCTCAACGCGTT  
TGGCAACGCTTTCTCAACAGGTTTCATGTGTGCCAGCTGCCCAACCCCGTCCTGGACAGCATCAGCATCATCGA  
CACCCCCGGGATCCTGTCTGGAGAGAAGCAGCGGATCAGCAGAGGCTATGACTTTGAGCCGCTCTGGAGTGGTT  
CGCGGAGCGTGTGGACCGCATCATCCTGCTCTTCGACGCCACAAGCTGGACATCTCCGATGAGTTCTCGGAAGT  
GATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGCGTGGTGTGAACAAGGCAGACCAGATCGAGACGCAGCA  
GCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTGGGCAAGATCATCAACACCCCCGAGGTGGTCAGGGTCTA  
CATCGGCTCCTTCTGGTCCACCCGCTCCTCATCCCCGACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCT  
CTTCAAGGACATCCAGTCACTGCCCCGAAACGCCGCCCTCAGGAAGCTCAATGACCTGATCAAGCGGGCACGGCT  
GGCCAAGGTTACGCCTACATCATCAGCTCCCTCAAGAAAGAGATGCCCAATGTCTTTGGTAAAGAGAGCAAAAA  
GAAAGAGCTGGTGAACAACCTCGGAGAGATCTACCAGAAGATTGAGCGCGAGCACCAGATCTCCCTGGGGACTT  
CCCGAGCCTCCGCAAGATGCAGGAACCTCTGCAGACCCAGGACTTCAGCAAGTTCCAGGCGCTGAAGCCCAAGCT  
GCTGGACACGGTGGATGACATGCTGGCCAACGACATCGCGCGGCTGATGGTGTGGTGGCGCAGGAGGAGTCCCT  
GATGCCTTCCCAGGTGGTCAAGGGCGGCGCCTTTGACGGCACCATGAACGGG<sup>2</sup>CCGTTCCGGGCACGGCTACGGCGA  
GGGGGCCGGCGAGGGCATCGACGACGTGGAGTGGGTGGTGGGCAAGGACAAGCCCACCTACGACGAGATCTTCTA  
CACGCTGTCCCTGTCAACGGCAAGATCACGGGCGCCAACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCCAA  
CACCGTGTAGGGAAGATCTGGAAGCTGGCCGACGTGGACAAGGACGGGCTGCTGGACGACGAGGAGTTCGCGCT  
GGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCACGAGCTGCCTGCCGACCTGCCCCCGCACCTGGTGCCGCC  
CTCCTCTGCCTGGGGCCATTGAGCCCAGCCTCCAGGGCCCCGGCGGTTTGAGGCCAGTGGCCACTGTCCGGGC  
TGTGATGGCACCAAGGCAGGTGGAGCACCAGGTACCACACAGCTGGGCTTCCCACCAGGCTTTCCCGCGGGGGTC  
TCAGGGAGCTTCTCCCAGCGCTGCTCGGAGTCTGCAGGAAGTGGCCTTGTTCTCCTTAGCCCGTCACTCCATAC  
AGTATTAGGTGAGGATGGATGCGGGCGCTGTCTTGGCGGAAGTCACTGTTGAAGTTGCAGTGGCTTGTTCACA  
CCTGTGGGAAGAGAAGTGAAGACTTCTCCTTGCAATAAAAAGTCTGAAGTGTG



3546/6881

**FIGURE 3272**

MFSWVSKDARRKKEPELFQTVAEGLRQLYAQKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVGQYSTGKTTFI  
RHLIEQDFPGMRIGPEPTTDSFIAVMHGPTGVVPGNALVVDPRRPFRLNAGNAFLNRFMCAQLPNPVLDSIS  
IIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNHEDKIRVVLNKADQIE  
TQQLMRVYGALMWSLGGKIINTPEVVRVYIGSFWSHPLLIPDNRKLFEEQDLFKDIQSLPRNAALRKLNDLIK  
ARLAKVHAYIISSKKKEMPVFGKESKKKELVNNLGEIYQKIEREHQISPGDFPSLRKMQELLQTQDFSKFQALK  
PKLLDTVDDMLANDIARLMVMVRQESLMP SQVVKGGAFDGTMNGPFGHGYGEGAGEGIDDEWVVGKDKPTYDE  
IFYTTLSPVNGKITGANAKKEMVSKLPNTVLGKIWKLADVDKDGLLDDEEFALANHLIKVKLEGHELPADLP  
VPPSSAWGH

3547/6881  
**FIGURE 3273A**

ACGGGGATCGCCGGCGGGCGGCAAGCGGAGGCGGCCAGGCCCGGGCGGTCTCCGAGATGTCACGATGGCTGTGGC  
CATGGTCAAACCTGTGTGAAAGAGCGGGTCTGCCGCTACTTGCTGCACCACTACTTAGGTCACTTCTTCCAAGAGC  
ACCTCAGCCTGGACCAGCTCAGCCTCGATCTGTACAAGGGCAGCGTTGCCCTGCGAGACATCCACCTGGAAATCT  
GGTCTGTGAACGAGGTGCTGGAGTCAATGGAGTACCGCTGGAGCTGGTGAAGGCTTCGTGGGCTCCATCGAGG  
TGGCGGTGCCCTGGGCTGCTCTGCTCACCAGCACTGCACAGTGCAGCTGTCCGGCCTCCAGCTCACCTTGCAGC  
CCC GCCGGGTCCAGCGCCAGGGGCTGCCGACTCACAGAGCTGGGCCTCATGTCATGACCACAAGCCTGCAGCTGG  
CCCAGGAGTGTCTGCGGGATGGGCTACCGGAGCCCTCTGAGCCACCACAGCCCTGGAGGGGCTGGAGATGTTTG  
CCCAGACCATTGAGACTGTGCTTCGGAGGATCAAAGTGACCTTCTCTGGACACTGTCTGTAGGGTGGAGCACTCTC  
CGGGTGATGGGGAACGTGGTGTGGCCGTGAGGTCCGTGTGACAGAGACTGGAGTACTGTGATGAGGCAGTGCGGG  
ACCCAAGCCAGGCGCCCGGGTGGACGTGCATCAGCCGCTGCCTTCTGCAACAAGCTGTCTGCAGCTGGCAGGGG  
TCCGCTGCACCTACGAGGAGCTCCCGGCACAGGAAGAGCCTCCAGAGCCCCCTTGAGATCGGCAGCTGCTCAG  
GGTACATGGAGCTGATGGTGAAGTTGAAGCAAAATGAGGCTTCCCTGGCCCCAAGTTGGAGGTGGCGGGACAGC  
TGGGCTCCCTGCACCTGCTCTGACCCGAGGCAGCTCCAGCAACTTCAGGAAGTGTCTCAGCGCCGTGAGCCTTA  
CAGACCAGAGGGCCTGGCTGACAAGCTGAACAAGAGCCGCCGCTAGGTGCCGAAGACCTGTGGCTGATTGAGC  
AGGACCTGAACCAGCAGCTGCAGGCAGGGGCACTGGCTGAGCCCCCTCAGCCAGACCCCTTACCAACCCCTTC  
TCAACCTGGATAACACTGACCTCTTCTTCTCCATGGCTGGCCTCACAAGCAGTGTGGCCTCAGCCCTCTCTGAGC  
TCTCCCTCTCCGATGTAGACCTGGCCTCTCTGTGCGCAGCGACATGGCCTCCCGCCGGCTCTCTGCCAGGCC  
ACCCAGCTGGCAAGATGGCCCCCAACCCCTCTCTGGACACCATGCGCCCTGACTCGCTGCTGAAGATGACCTTGG  
GGGGTGTGACCTGACCTTGCTTCAGACGTCTGCCCATCTTCCGGACCACCTGACCTCGCCACGCACTTTTTCA  
CCGAGTTTGATGCCACCAAGGATGGGCCCTTCGGTTCCCGAGACTTCCATCACCTTCGACCACGCTTCCAGAGGG  
CCTGTCCCTGTAGCCATGTTTCGGCTAACGGGCACAGCCGTGCAGCTGTCTGGGAGCTGCGGACGGGCAGTCCGG  
GCCGGCGGACAACCAGCATGGAAGTGCACCTTCGGGCAGCTGGAGGTGCTGGAGTGTCTGTGGCCCCGGGGCACCT  
CTGAGCCTGAGTACAGGAGATCCTGACCTTCTCTGGTACGCTGGGCTCCAGGCCCTCAGCTCGGCCCTGCGCCC  
ATCTGCGCCACACACAGATCCTGCGCCGTGTGCCAAGAGCCGACCCCGCGCTCAGTTGCCCTGCCATTGCCACT  
CAGAACTGGCCCTGGACCTGGCCAACTTCAGGCGGACGTGGAGCTGGGGGCCCTGGACCGGCTGGCCGCCCTAC  
TGCGCCTGGCCACCGTACCTGCTGAGCCTCCAGCCGGCCTGCTGACAGAGCCCTGCGGCGATGGAGCAGCAGA  
CGGTATTTCCGGCTCTCTGCACCCCGGGCCACGCTGCGGCTGCGCTTCCCATTCGCCACCTGCGGCTGAGCCGG  
ACCCCTGGGCGGGCCAGGCCGTGCGGGCTGAGCAGCTTCGGCTGGAGCTGAGTGAAGCCCACTTCGGGTGAGAGC  
TTAGCAGTGGGCCTGGTCCCCAGTCCCCACCCACCTGGAACCTCACCTGCTCCGACCTACATGGTATCTATGAAG  
ATGGAGGGAAGCCACCTGTCCCTTGCTGCGTGTCTCAAAGCCCTGGACCCCAAGAGCACTGGGCGCAAGTACT  
TCCTGCCCCAGGTAGTGGTGAAGTGTGAACCCCACTCCAGCAGCACACAGTGGGAGGTGGCCCCGGAGAAGGGAG  
AGGAACTGGAGCTGTGAGTGGAGAGTCCCTGTGAGCTGCGGGAACCTGAGCCCTCGCCCTTCTCTTAAGAGGA  
CCATGTATGAGACAGAGGAGATGGTGTATCCCTGGAGACCTGAGGAGATGAGGACGTTCCAGAGCCGGACCTGG  
CACTGTCCCGCTGCAGCCTGGAAGTGATCTGCCAGTGTCCACATCTTCTGCCAGCAAGGAGGTCTACGAGA  
GCATCTACAACAGGATCAACAACGACCTGCTCATGTGGGAGCCTGCAGATCTGCTTCCACCCCGACCCCGCCG  
CCCAGCCCTCGGGCTTCCCGGCCCTCAGGCTTCTGGCAGCAGACGCTTAAAGATGTGCAAGTCAGCCTTCAAGC  
TGGCCAACTGCTTTGATCTCACCCAGACTCGGACTCGGATGACGAGGATGCCCACTTCTTCTCAGTGGGGGCAT  
CAGGTGGCCACAGGCCGTGCCCCTGAGGCCCAAGTCTTCACTTGACAGACACCTTCTCTACACTGGTGACAG  
TGCTGAAGGGGCGGATCACAGCCCTCTGTGAGACCAAGGATGAGGGTGGGAAGCGGCTGGAGGCTGTGCACGGG  
AGCTGGTGTGAGATGGAGCAGGTACCTCTTCAGCGTCTCCAGTACTGTGGCCAGCCAGGACTTGGCTACT  
TCTGTCTGGAAGCTGAAAAGGCAACACTCTACCACCGAGCGGCCGTGGATGACTACCCGCTGCCAGTCACCTGG  
ACCTTCCAGTTTCGCTCCCCCGGCTCAGCTGGCCCCAACCATCTACCCATCGGAGGAAGGGGTGACCGAGCGGG  
GAGCCTCGGGCCGAAGGGCCAGGGCCGGGGACCCACATGTTGTCCACTGCTGTGCGCATCCACCTGGACCCCG  
ACAAGAATGTGAAGGAGTTCTGGTGACACTGCGGTTGCACAAAGCCACCTTGCGCCACTACATGGCCCTGCCCCG  
AGCAGAGCTGGCATTCCAGTTGTTGGAGTTCTTAGACGTGCTGGATGACCTGTGCTGGGCTACCTGCCCCGA  
CGGTATCACCATCTGCACACACCTGTTCTCTGCTGTGAGGACTATAGGCCACTCTACCTCCAGTGCCTG  
TCCTCATCACCAGGAGACCTTCACTCTCTCCAGCAACATCATGAGACCTCCACCTTCTGCTCAGGTTCA  
TCCTCGATGACTCCGCCTTGTAACCTGTCCGACAAGTGTGAGGTGGAGACCCTGGACCTGCGGCGAGATTATGTCT

3548/6881  
**FIGURE 3273B**

GTGTTTTGGATGTTGACCTCTTGGAACCTTGATTAAAACTGGAAAGGGAGCACCGAGGGCAAACCTGAGCCAGC  
CACTATTCGAGCTGCGCTGCTCCAACAATGTGGTACACGTGCACAGCTGTGCCGACTCCTGTGCCCTGCTGGTCA  
ACCTGCTCCAGTACGTAATGAGCACAGGCGATCTGCACCCCCACCCCGCCCCCAGCCCCACGGAGATCGCCG  
GCCAGAAGCTCTCGGAGAGTCTGCTCTCTGCCCCCTGCGCCCCCAGTGGAGACGGCCCTCATCAACCAGCGTG  
ACCTGGCCGACGCCCTCCTGGACACCGAGCGCAGCCTACGGGAGCTGGCCAGCCTTCAGGTGGCCACCTCCCTC  
AGGCGTCGCCCATCTCCGTCTACCTATTCCCAGGTGAACGGAGTGGGGCCCCACCCCTTCACACCTGTCGGGG  
GCCCTGCTGGCAGCTTAGGGTCATGCTCAGAGGAGAAGGAAGATGAAAGGGAAGAGGAGGGCGATGGAGACACCC  
TGGACAGTGATGAGTTCTGCATCCTTGATGCTCCCGCCTGGGCATCCCGCCCCGAGATGGGGAGCCTGTGGTGA  
CACAGCTGCATCCCGGCCCATCGTTGTGAGGGACGGTTACTTCTCACGGCCGATCGGCAGCACGGACTTGCTGC  
GGGCACCTGCCCATTTCCAGTGCCAGCACTCGGGTGGTGTCTACGTGAGGTCTCCCTCGTCTGGCACCTCTATG  
GGGGCCGAGACTTTGGCCCCACCCGGCCACAGGGCAAGAACTGGCCTCTCAGGTCCAGGAGCTCCCTTCCC  
GCTGCTCTGGCCCCAACCGGCCCCAGAACTCATGGCGCACGCAGGGGGGAGCGGGCGGCAGCACCATGTCTCTCA  
TGGAGATCCAGCTGAGCAAGGTAAGCTTCCAGCACGAGGTGTACCCAGCGGAGCCAGCCACAGGCCCTGCGGCC  
CCAGCCAGGAGCTGGAGGAGCGACCGCTGTCCCGTCAAGGTGTTTCATCGTGCAGGAGCTGGAGGTCCGAGACCGGC  
TCGCTCTCTCCAGATCAACAAGTTCTGTACCTACACACGAGTGAGCGGATGCCGCGAGCTGCCCACTCTAACA  
TGCTCACCATCAAAGCGCTGCATGTGCCCCCACTACCAACCTGGGTGGGCCTGAGTGTGTCTCCGCGTCTCGC  
TGATGCCCTTGGGCTCAATGTGGACAGGATGCCCTCTTCTTCTCAAGGACTTCTTCACTAGTCTGGTGGCCG  
GCATCAACCCCTGGTCCAGGGGAGACCTCCGCTGAGGCTCGCCCCGAGACTCGAGCCAGCCAGCAGCCCCC  
TGAAGGGCAGGCCGAAGGCGTAGAGACCACTGGTTGCGAGGAGGCCAGGAGGTGGACACAGCCCTCCCTC  
CTGACCAGCAGCCATCTACTTCAGAGAGTTCCGCTTCACGTCTGAGGTCCCCATCTGGCTGGATTACCATGGCA  
AGCACGTACGATGGACCAGGTGGGCACTTTTGCTGGCCTCCTCATCGCCTGGCCCAACTCAACTGCTCCGAGC  
TGAAGCTAAAGCGGCTCTGTTGCAGGCACGGGCTCCTGGGTGTGGACAAGGTGCTGGGCTATGCCCTCAACGAGT  
GGCTGCAGGACATCCGCAAGAACCAGCTGCCCGGCTGCTGGGAGGCGTGGGCCCCATGCACTCGGTTGTCCAGC  
TCTTCCAAGGGTTCCGGGACCTGCTGTGGCTGCCATTGAGCAGTACAGGAAGGATGGCCGCTCATGCGGGGGC  
TGCAGCGAGGGGCTGCCCTCCTTTGGCTCATCCACAGCCTCTGCCGCCCTGGAACCTCAGCAACCGGTTGGTACAGG  
CTATCCAGGCCACAGCTGAGACCGTGTATGACATCCTGTCCCCGGCAGCCCCCGTCTCCCGCTCCCTGCAGGATA  
AGCGCTCTGCGCGGAGGCTGCGCAGGGGCCAGCAGCCTGCCGACCTGCGGGAGGGTGTGGCCAAGGCCCTACGACA  
CAGTGCAGAGAGGGCATCTTGGATACAGCTCAGACCATCTGTGACGTGGCATCGCGGGGCCATGAGCAGAAGGGGC  
TGACGGGCGCCGTGGGGGGCGTGATCCGCCAGCTGCCCCGACTGTGGTGAAGCCGCTCATCCTGGCCACGGAGG  
CCACGTCCAGCCTGCTCGGGGGCATGCGCAACCAGATTGTCCCCGACGCCACAAAGGACCAGCCCTCAAGTGGC  
GCTCGGACAGTGCCCAAGACTGAGCCTGGGGTGCCCGGCACCCAGAGGGTGCTGCCCAACCATGCTCCTGAGCCTC  
CCAAGAGCTGCAGCCACGGGCCCGGCCCGGCCCTGGCCCTTACAGGGGATGGCCACTGTGAAGGACGCCCTTCCCAG  
CCTGCCCGTTGCCAATCTGCTGTGAGAGGGGGGCTCCCTGCCTTGGGGCCTTAGCCCTGGCTCTGCACTTTTCC  
TCCGGGGAGAAAGGACACTGCCCCCTCCCCGACCTGGGGCCACACTGCTGCCTTCTCCAGGACGGAGGCTTTTG  
GACCTCGGACCCCATCCACTCAGCCAAGTGTCTTTCTGTGTCTGGGGGGAGGAGGGGATGATATCCGTGTGGT  
TCGATGTATTATTTTAAAGCTCCGTGAGTGCGTGGGTGAGTGTCTGCATGAAGTGAATAAACTGCCCAACCGCC

3549/6881  
**FIGURE 3274**

MSRWLWPWSNCVKERVCRYLLHHYLGHHFFQEHLSLDQLSLDLYKGSVALRDIHLEIWSVNEVLESMESEPLELVEG  
FVGSIEVAVPWAALLTDHCTVRVSGQLTLQPRRGPAAGAADSQSWASCMTTSLQLAQECLRDGLPEPSEPPQPL  
EGLEMAQTIETVLRRIKVTFLDTVVRVEHSPGDGERGVAVEVRVQRLEYCDEAVRDPSPQAPPVDVHQPPAFLHK  
LLQLAGVRLHYEELPAQEPEPPLQIGSCSGYMELMVKLKQNEAFPGPKLEVAGQLGSLHLLLTFRQLQLQEL  
LSAVSLTDHEGLADKLNKSRPLGAEDLWLEQDLNQQLQAGAVAEPLSPDPLTNPLNLNDNTDLFFSMAGLTSSV  
ASALSELSLSDVDLASSVRSDMASRRLSAQAHPAGKMAPNPLDLMRPDSLKMTLGGVTLLTLLQTSAPSSGPPD  
LATHFFTEFDATKDGPFGRDFHHLRPRFORACPCSHVRLTGTAVALSWELRTGSRGRRTTSMEVHFQGLEVLEC  
LWPRGTSEPEYTEILTFPGTLGSQASARPCAHLRHTQILRRVPKSRPRSVACHCHSELALDLANFQADVELGAL  
DRLAALLRLATVPAEPPAGLLTEPLPAMEQQTVFRLSAPRATLRLRFPADLRPEPDPWAGQAVRAEQRLRELSE  
PQFRSELSSGPGPPVPTHLELTCSDLHGIYEDGGKPPVPCLRVSKALDPKSTGRKYFLPQVVTVNPPSSSTQWE  
VAPEKGELELSVESPCELREPEPSPFSSKRTMYETEEMVIPGDPEEMRTFQSRTLALSRCSEVILPSVHIFLP  
SKEVYESIYNRINNDLLMWEFADLLPTDPAAPQSGFPGSGFWHDSFKMCKSAFKLANCFDLTPDSDSDEDAH  
FFSVGASGGPQAAPEAPSLHLQSTFSTLVTVLKGRITACETKDEGGKREAVHGELVLDMEHGTLSVSQYCG  
QPGLGYFCLEAEKATLYHRAAVDDYPLPSHLDLPSFAPPAQLAPTIYPSEEGVTERGASGRKGQGRGPHMLSTAV  
RIHLDPHKNVKEFLVTLRLHKATLRHYMALPEQSWHSQLEFLDVLDDPVLGYLPPTVITILHHLFSCSVDYRP  
LYLPVRVLITAEFTLSSNIIMDTSTFLLRFILDDSAHYLSKCEVETLRLRRDYVCVLDVLDLLELVIKTWKGST  
EGKLSQPLFELRCSNNVVHVHSCADSCALLVNLQYVMSTGDLHPPPRPPSPTEIAGQKLSSESPASLPCPPVET  
ALINQRLADALLDTERSLRELAQPSGGHLPQASPISVYLFPGERSGAPPPSPVGGPAGSLGSCSEEKEDERE  
EGDGDTLDSDEFCILDAPGLGIPPRDGEPPVTQLHGPPIVVRDGYFSRPIGSTDLLRAPAHFPVPSTRVVLREVS  
LVWHLYGGRDFGPHPGHRARTGLSGPRSSPSRCSGPNRPQNSWRTQGGSGRQHHLVMEIQLSKVSFQHEVYPAEP  
ATGPAAPSQELEERPLSRQVFIQVELEVRDLASSQINKFLYLHTSERMPRAHSNMLTIKALHVAPTTLNKGPE  
CCLRVSLMPLRLNVDQDALFFLKDFFTSLVAGINPVVPGETSAEARPETRAQPSPLEGQAEVETTGSEAPGG  
GHSPSPPDQQPIYFREFRFTSEVP IWL DYHGKHVTMDQVGTFAGLLIGLAQLNCSSELKLRCCRHLLGVDKVL  
GYALNEWLQDIRKNQLPGLLGGVGPMHVVQLFQGFRLDLWLFIEQYRKDGRMLMRGLQGAASFGSSTASAALEL  
SNRLVQAIQATAETVYDILSPAAPVSRSLQDKRSARRLRGQPADLREGVAKAYDTVREGILDTAQICDVASR  
GHEQKGLTGAVGGVIRQLPPTVVKPLILATEATSSLLGGMNRQIVPDAHKDHALKWRSDSAQD

3550/6881  
**FIGURE 3275**

AAGGAGAGAGGGAGGGCGGAGGGCGGAGGGCGGCGGGAGGAGGGCGGGAGGAGCGCTCTTCCTGGTTGGGCC  
TGCCCTGAGCTGCCACCGGAAGCCAGCCTCAGGGACTGCAGCGACCCCCAAACACCCCTCCCCAGGATGTGG  
AGGAGATCATCAGCCGGTGTACTGCACTGGGGTGTGAGCCCAAGTGCAGAAGCAGCGGGCCAGGGAGCTGGGCC  
TGGGCCGCCATGAGAATGCCATCAAGTACCTGGGCCAGGATTATGAGCAGCTGCGGGTGCATGCCTGCAGAGTG  
GGACCCTCTTCGGTGATGAGGCCTTCCCCCGGTACCCAGAGCCTGGGTTACAAGGACCTGGGTCCCAATTCTT  
CCAAGACCTATGGCATCAAGTGAAGCGTCCCACGGAAGTGTGTCAAACCCCCAGTTCATTGTGGATGGAGCTA  
CCCGCACAGACATCTGCCAGGGAGCACTGGGGGACTGCTGGCTCTTGGCGGCCATCGCCTCCCTCACTCTCAACG  
ACACCCCTCTGCACCGAGTGGTTCCGCACGGCCAGAGCTTCCAGAAATGGCTATGCCGGCATCTTCCATTTCCAGC  
TGTGGCAATTTGGGGAGTGGGTGGACGTGGTTCGTGGATGACCTGCTGCCCATCAAGGACGGGAAGCTAGTGTTCG  
TGCACTCTGCCGAAGGCAACGAGTTCTGGAGCGCCCTGCTTGAGAAGGCCATAGCCAAGGTAAATGGCAGCTACG  
AGGCCCTGTGAGGGGCGAGCACCTCAGAGGGCTTTGAGGACTTCACAGCGGGGTTACCGAGTGGTACGAGTTGC  
GCAAGGCTCCAGTGACCTCTACCAGATCATCCTCAAGGCGCTGGAGCGGGGCTCCTGTGGGCTGCTCCATAGA  
CATCTCCAGCGTTCTAGACATGGAGGCCATCACTTCAAGAAGTTGGTGAAGGGCCATGCCTACTCTGTGACCGG  
GGCAAGCAGGTGAACCTACCGAGGCCAGGTGGTGAGCCTGATCCGGATGCCGAACCCCTGGGGCGAGGTGGAGTG  
GACGGGAGCCTGGAGCGACAGCTCCTCAGAGTGAACACAGTGGACCCATATGAACGGGACCACTCCGGGTCAA  
GATGGAGGACGGGGAGTTCTGGATGTCAATCCGAGACTTCATGCGGGAGTTACCCGCCTGGAGATCTGCAACCT  
CACACCGGACGCCCTCAAGAGCCGGACCATCCGAAATGGAACACCACACTCTACGAAGGCACCTGGCGGCGGGG  
GAGCACCGCGGGGGGCTGCCGAAACTACCCAGCCACCTTCTGGGTGAACCCCTCAGTTCAAGATCCGGCTGGATGA  
GACGGATGACCCGGACGACTACGGGGACCGCGAGTCAAGCTGCAGCTTCGTGCTCGCCCTTATGCAGAAGCACCG  
TCGCCGCGAGGCCGCTTCGGCCGCGACATGGAGACTATTGGCTTCGCGGTCTACGAGGTCCCTCCGGAGCTGGTC  
GCGAGCCGGCCGTACACTTGAAGCGTGACTTCTTCTTGCCAATGCGTCTCGGGCGCGCTCAGAGCAGTTTCATCA  
ACCTGCGAGAGGTGAGCACCCGCTTCCGCTGCCACCCGGGGAGTATGTGGTGGTGCCTCCACCTTCGAGCCCA  
ACAAGGAGGGCGACTTCGTGCTGCGCTTCTTCTCAGAGAAGAGTGTGGGACTGTGGAGCTGGATGACCAGATCC  
AGGCCAATCTCCCCGATGAGCAAGTGCTCTCAGAAGAGGAGATTGACGAGAACTTCAAGGCCCTCTTCAGGCAGC  
TGGCAGGGGAGGACATGGAGATCAGCGTGAAGGAGTTGCGGACAATCCTCAATAGGATCATCAGCAAACACAAAG  
ACCTGCCGACCAAGGGCTTCAGCCTAGAGTTCGTGCCGACGATGGTGAACCTCATGGATCGTGATGGCAATGGGA  
AGCTGGGCCTGGTGGAGTTCAACATCCTGTGGAACCGCATCCGGAATTACCTGTCCATCTTCCGGAAGTTTGACC  
TGGACAAGTCGGGCAGCATGAGTGCCTACGAGATGCGGATGGCCATTGAGTCGGCAGGCTTCAAGCTCAACAAGA  
AGCTGTACGAGCTCATCATACCCGCTACTCGGAGCCCGACCTGGCGGTGCACTTTGACAATTCGTTTGCTGCC  
TGGTGC GGCTAGAGACCATGTTCCGATTTTCAAACTCTGGACACAGATCTGGATGGAGTTGTGACCTTTGACT  
TGTTTAAAGTGTTGACGCTGACCATGTTTGATGAGGACGGGACTCGGTCCCCCTTGCCGTGCTCCCCCTCCCTCC  
TCGTCTGCCAAGCCTCGCTCCTACCACACCACACAGGCCACCCAGCTGCAAGTGCCTTCCCTGGAGCAGAGA  
GGCAGCCTCGTCTCCTGTCCCCCTCTCCTCCAGCCACCATCGTTTCATCTGCTCCGGGCAGAACTGTGTGGCCCC  
TGCTGTGCCAGCCATGGGCTCGGGATGGACTCCCTGGGCCCCACCCATTGCCAAGCCAGGAAGGCAGCTTTCGC  
TTGTTCTGCTCGGGACAGCCCCGGGTTTCCCCAGCATCTGATGTGTCCCCCTCTCCCCACTTCAGAGGCCACC  
CACTCAGCACACCGGCCCTGGCCTTGCTGCAGACTATAAACTATAAACCCTAGCTCGACACAGTCTGCAGTCCA  
GGCGTGTGGAGCCGCTCCCGGCTCGGGGAGGCCCGGGGCTGGGAACGCCTGTGCCTTCTGCGCCGAAGCCAA  
CGCCCCCTCTGTCTTCCCTGGCCCTGTGCGGACAGGAGCTGCCAGCCTGTGGGCGGTGGCCTTCCCTCCT  
TCGCTCCTTTTTTATATTAGTGATTTTAAAGGGGACTCTTCAGGGACTTGTGTACTGGTTATGGGGGTGCCAGAG  
GCACTAGGCTTGGGGTGGGGAGGTCCCGTGTTCATATAGAGGAACCCCAAATAATAAAAGGCCCCACATCTGTC  
TGTG

3551/6881

**FIGURE 3276**

GTAGCAGGTAAAGATGGCAGCTACCATGTTCCGGGCTACGCTGCGGGGATGGAGAACCGGTGTCCAGCGGGGCTG  
CGGGCTACGGCTGTTGAGCCAGACCCAGGGCCCTCCAGATTACCCAGGTTTGTGGAGTCTGTGGATGAATATCA  
GTTTGTGGAGCGCCTGTTACCGGCTACCAGGATCCCAGATCCCCCAAAGCATGAACATTATCCTACCCCTAGTGG  
CTGGCAGCCTCCCAGAGACCCCCACCCAACCTGCCTTACTTTGTACGACGCTCTCGGATGCACAACATCCCCGT  
CTACAAGGACATCACGCATGGCAACCGGCAGATGACTGTGATCCGGAAAGTGAAGGGGACATCTGGGCCCTGCA  
GAAAGACGTGGAAGATTTTCTGAGCCCGCTGCTGGGGAAGACACCTGTCACCCAGGTCAATGAGGTGACAGGTAC  
CCTACGGATCAAGGGCTACTTTGACCAGGAGCTTAAAGCCTGGCTCTTGGAGAAAGGCTTCTGAGGCCAGCCGA  
GCAGCCTGCTTGTGAGCATGCCCTGTGGATCAAGTCTAGGGGGCCTCAGGAGGAGGGAGGTGGGTGTTGGAGCCC  
CTGAGACAGGGGATACAGAACTAGGGCTAAAGGACTTTGGGGTCAGGCCTTGCTTGCATAAAGGAGAAAACAAC  
TCTATGTACATGCTGGGGGAGAGTGCCTAATGTGGGAGACCAAATAGGGATCACCAGGCTAATGGGGGGCGTGAG  
CAGCTTCTCTCCCTCCTATCTTGGCCTGTTCTTTTTTGTTTTTTGTAGACGAGTCTCACTCTGTTGCCAGGGT  
GGAGTGCAGTGGCATGATCTTGGCTCACTGCAACTTCCACCTCTGGGATCAAGGGATTCTCCTGCCTCAGCCTCT  
TGAGTAGCTGGGATTACAGGCGCCACCACCACAGCCTGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCAC  
CATGTTGGCCAGGCTGGTCTCAAACCTCCTGACTCGAAGTGATCCGCCCACCTTGGCCTCCCAAAGCGTTGGGATT  
ATAGGCATGAGCCATGTGCTGGTCCACCTTGGCCTGTTTTGTTTTTCTTTCCTTGGGCTCAGCAATTCAAATTC  
TAGTTGTTATTTGGTGAAGCAGTAGCCCAACCCAGTTTAGGGGAAGGTAGCACAGGGCAGAGCCACTGGGCAC  
TTTGTTCCTTGGCCCTCCGAAGCTCACTGTTGCAAATACCCCAAGCCTTGTCTAGGCCAGATCTTGTTTGG  
TGCAGGTGATGGAGAACACAGATGACTCGGGCATGGGTCTTGGAGATCTTCTGTTCAAAGTACAGTGCTGGCACT  
GGGGCAGAGTGGCCACGTTAGCCCCGGGCTCTGATAGAGAGGTAGGAGGCACGTTCTTGGTCACTGTTCCATT  
GCAGACCAGACTTGCTGGCCTGACCACAAGGGAGTGGCTGGGAACCTCACAGCCAGCATAGGGACATCCCCCTGCA  
GCCTTCTGACCTGCAATCAAGGCTGGGGAGGGGTTTGCAGGCAGGAATATGCTGACCTTTCACCCTGCCATCCCA  
TCCCAACCCAGCTCACTAGCCTTCATATATGCCTTATACTTGGAGTCACAGGGGCCAAAGGCCTGAGACCCAC  
CCTGCCCCCAAACCTGGCTAAGACAGCTTTCAGTTCTGACTCCCCAACTTGGTCTCTGCCCTGAAGCAGGGCACT  
GAACTCTGGGCTGCTTCTCTGTGTGTAATAATGGGCACATCTTCCTAATCTGTTAATGGTCAGTGGTGTCCCAAG  
GATAGTGCTGGCTTCCATGGAAACCTCACTCCTGGAGATTCCATTCCATTTTCAAGTGTACAGCCACAGCAAGG  
AGCCCGACACTGATTTGATCGATTCTGTGACACAAACCCACCAATTGTTAATGCAAGTTTTTATTGGCTGTAT  
ATACAATTTAAGCTATTAAAATTTGTACAATTTTACAAATTAAA

3552/6881  
**FIGURE 3277**

MAATMFRATLRGWRTGVQRCGLRLLSQTQGPPDYPRFVESVDEYQFVERLLPATRIPDPPKHEHYPTPSGWQPP  
RDPPPNLPYFVRRSRMHNIPVYKDI THGNRQMTVIRKVEGDIWALQKDVEDFLSPLLGKTPVTQVNEVTGLRIK  
GYFDQELKAWLLEKGF

3553/6881

**FIGURE 3278**

GTCCAGGCAGGTGCAGGCGCCGCGGGGCCGGATCCTCCGCGCGGCCGAGTCCATCTCCTGGGAAATGGGGCGGAC  
AGTGTTTCCTTGACTGACTATTGTGAGCGCCCTCTCTCTCCGGCGGAGCGGAGACCATGGCCCCACTCAGGGCC  
CCCCGGCCCCGCTGGAATTCGGAGGGCCCCCTGGGCGCCGCGCTCTGCTACTGCTGCTGCCCGCCACCATGTTCC  
ACCTGCTCCTGGCGGCCCGTTCCGGCCCCGCGCGCCTGCTGGGTCCACCCGCGTCCCTGCCGGGGCTGGAGGTGC  
TGTGGAGCCCACGGGCGCTGCTGCTGTGGCTCGCCTGGCTCGGCCTGCAGGCGGCGCTCTACCTACTGCCGGCGC  
GCAAGGTGGCCGAGGGGCAGGAATTGAAGGACAAGAGTCGCCTGCGCTATCCTATTAACGGCTTCAGGCCCTGG  
TGCTGACAGCCCTGTTGGTGGGGCTGGGGATGTCAGCGGGGCTGCCTCTGGGGGCGCTCCCGGAAATGCTCCTGC  
CCTTGGCGTTTGTGCCACCCCTCACCCTTTTCATCTTCAGCCTCTTTCTCTACATGAAGGCGCAGGTAGCCCCAG  
TTTCGGCCCTGGCACCTGGGGGGAACCTCAGGCAATCCGATTTACGACTTTTTTCTGGGACGAGAGCTCAACCCCTC  
GTATCTGTTTCTTCGACTTCAAATATTTCTGTGAAGTGCAGCCCGGCCTCATCGGCTGGGTCTCATCAACCTGG  
CCCTGTTGATGAAGGAGGCAGAGCTTCGAGGCAGTCCCTCACTGGCCATGTGGCTGGTCAATGGCTTCCAGTTGC  
TCTACGTGGGTGATGCCCTCTGGCACGAGGAGGCCGTCCTCACCACCATGGATATCACACATGACGGGTTTGGCT  
TCATGCTGGCGTTTGGGGACATGGCCTGGGTGCCCTTCACCTACAGCCTGCAGGCCAGTTCTGCTGCACCACC  
CGCAGCCCCTGGGGTTGCCCATGGCCTCTGTCATCTGCCTCATCAATGCTACTGGTTACTACATCTTCCGTGGGG  
CGAATTCAGAAAAACACTTTCCGAAAGAATCCTTCTGACCCAGAGTGGCTGGGCTTGAGACCATCTCTACAG  
CCACAGGGCGGAAACTGCTGGTGTCTGGGTGGTGGGGTATGGTCCGCCATCCCAACTATCTTGGAGACCTCATCA  
TGGCTCTGGCTTGGTCTTGCCTGCGGGGTGTCACACCTGCTGCCCTACTTCTACCTCCTCTACTTCACCGCGC  
TGCTGGTGCACCGTGAGGCCCGGGATGAGCGGCAGTGCCTGCAGAAGTACGGCCTGGCCTGGCAGGAGTACTGCC  
GGCGTGTGCCTTACCGCATCATGCCCTACATCTACTGAAGCGGCTCCACCACCCAGGTGGGGGCATGTGCCAC  
TCATCCACCAGCACACCCAGGACCAGGAGCTCGACACACTTGGGACTCAAGGGCTTGACCCCCACCCAGCCCTG  
AGGATGAACAACCTCAGAGAAGAGGTGGTTTAGAGCAAGGAAAAAATGAAACCAGTGACC



3554/6881  
**FIGURE 3279**

TTCTTTCCAGCCTCACGCCCCTGGGCTGCAGTTGGAACGATGGCGGCGGCAGCTGCCGCCGGGCTAGCCCGGG  
GTCTGGACCTGGGGACTCCCCAGAAGGGCCCCGAGGGGAGGCTCCGGAGCGTCGGCGGAAGGCGCACGGGATGCT  
GAAGCTTTACTACGGCCTCTCGGAAGGGGAGGCGGCGGGACGCCCCGCGGGGCCGACCCCTGGACCCGACTGA  
TCTGAACGGGGCGCACTTCGACCCGGAAGTTTACCTAGACAAGCTGCGTAGAGAGTGCCCTCTGGCCAGTTGAT  
GGACAGTGAGACGGACATGGTGGCGCAGATCCGGGCTCTAGACAGCGACATGCAGACCCTGGTCTATGAGAACTA  
CAACAAGTTCATCTCAGCCACAGACACCATCCGGAAGATGAAGAACGATTTCCGGAAGATGGAGGATGAGATGGA  
CCGGCTGGCCACCAACATGGCAGTGATCACCAGCTTCAGCGCTCGCATCAGCGCCACGCTGCAGGACCGCCACGA  
GCGCATCACCAAGCTGGCAGGGGTCCACGCGCTGCTGCGGAAGCTGCAGTTCTCTTTGAGCTGCCCTCGCGCCT  
CACCAAGTTCGTGGAACGGGCGCCTATGGGCAGGCGGTGCGCTACCAGGGCCGCGCGCAGGCCGTGCTGCAGCA  
GTACCAACACCTGCCCTCGTTCCGCGCCATCCAGGACGACTGCCAGGTCATCACGCCCCGCTGGCCAGCAGCT  
GCGGCAGCGCTTTAGGGAGGGCGGCTCAGGCGCCCCGGAGCAGGAGAGTGCTGGAGCTGCTGCTGGCCCTGGG  
CGAGCCTGCGGAGGAGCTGTGCGAGGAGTTCTTGGCGCACGCCCGCGGCCGGCTGGAGAAGGAGCTGAGAACT  
GGAGGCCGAGCTGGGGCCCTACCTCCGGCTCCCGACGTGTTAGAGTTACCGACCATGGAGGCAGTGGCTTCGT  
GGGCGGCTCTGCCAGGTGGCGGCGGCTACCAGGAGCTGTTTGGGCCCAGGGCCAGCAGGTGCCGAGAAGCT  
GGCGGCTTCGCCCCGCGAGCTGGGCAGCCGCTATTTTGGCGTGGTGGAGCGGCGCTGGCGCAGGAGCAGGGTGG  
TGGTGACAACTACTGCTGGTGGCGGCGCTGGACCGCTTCCACCGCGCTTGGCGGCTCCCGGGGCCCTGCTGGC  
CGCTGCCGGGCTCGCAGACGCTGCCACGGAGATCGTGGAACGAGTGGCCCGCGAGCGCCTGGGCCACCACTGCA  
GGGTCTCCGGCGGCGCTTCTGGGCTGCCTGACAGACGTCCGCCAGGCGCTGGCAGCACCTCGCGTGGCTGGGAA  
GGAGGGCCCTGGCCTGGCCGAGTTGCTGGCCAAATGTGGCCAGCTCCATCCTGAGCCACATTAAGGCCTCTCTGGC  
AGCAGTGACCTTTTACCGCCAAAGAGGTGTCTTCTCCAACAGCCCTACTTCCGGGGTGAGTTCTGCAGTCA  
GGGTGTCCGTGAGGGCCTCATCGTGGGCTTCTGCTCACTCTATGTGCCAGACGGCTCAGAGCTTCTGCAGACGCC  
TGGGGAGAAGGGGGGTGCCACACCACCTGCCCTGCTCCTGCTGCTCTCCCGCCTCTGCCTGGACTACGAGACGGC  
CACCATCTCTACATCCTCACTCTCACTGATGAACAGTTTCTGGTGCAGGATCAGTTCCCAGTGACGCCCGTGAG  
CACGCTGTGTGCAGAGGCCAGGGAAACGGCGCGGCGGCTGCTGACCCACTACGTGAAGGTGCAGGGCCTGGTCAT  
ATCACAGATGCTGCGCAAGAGCGTGGAGACTCGCGACTGGCTCAGCACTCTGGAGCCCCGGAATGTGCGGGCCGT  
CATGAAGCGGGTGGTGGAGGATACACCGCCATCGACGTGCAGGTGGGGCTCCTGTACGAAGAGGGTGTTCGCAA  
GGCCCAGAGCAGCGACTCCAGCAAGAGGACTTTCTCCGTGTACAGCAGCTCTCGGCAGCAGGGCCGCTACGCCCC  
CAGCTATACCCCCAGTGCCCCGATGGACACCAACCTCTTGAGCAATATCCAGAAGCTATTCTCTGAACGTATTGA  
TGTGTTTACGCCCTGTGGAGTTCAACAAGGTGTGCGGTGCTGACCGGCATCATCAAGATCAGCCTGAAGACGCTGCT  
GGAGTGTGTGCGGCTGCGCACCTTTGGGCGCTTCGGGCTGCAGCAGGTGCAAGTGGACTGCCACTTTCTGCAGCT  
CTACCTGTGGCGTTTTGTGGCCGACGAAGAACTCGTGCACTTGCTGCTGGACGAAGTGGTGGCCTCTGCTGCCCT  
GCGCTGCCCAGACCCTGTGCCCATGGAGCCCAGTGTGGTTGAGGTCATCTGCGAGCGCGGCTAGGCGCAGCCGCT  
GCCATGCACCGGTCTGTCCCTGCACCCATGGCACCCAGGATCTGGTCTCGGTGGTCTTCCCCGACAGGCAGGTG  
TCAGGACCGGCTAATAAACATGTGTGGCCTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3555/6881  
**FIGURE 3280**

MAAAAAAGPSPGSGPGDSPEGPEGEAPERERRKAHGMLKLYYGLSEGEAAGRPAGPDPLDPTDLNGAHFDPEVYLD  
KLRRRECPLAQLMDSETDMVRQIRALDSMQTLVYENYNKFISATDTIRKMKNDFRKMEDEMDRLATNMAVITDFS  
ARISATLQDRHERITKLAGVHALLRKLQFLFELPSRLTKVELGAYGQAVRYQGRAQAVLQQYQHLP SFRAIQDD  
CQVITARLAQQLRQRFREGGSGAPEQAECVELLLLALGEPAEELCEEFLAHARGRLEKELRNLEAELGPSPPAPDV  
LEFTDHGGSGFVGGGLCQVAAAYQELFAAQGPAGAEKLAAFARQLGSRYFALVERRLAQEQQGGDNSLLVRALDRF  
HRRLRAPGALLAAAGLADAATEIVERVARERLGHHLQGLRAAFLGCLTDVRQALAAPRVAGKEGPGLAELLANVA  
SSILSHIKASLAAVHLFTAKEVSFSNKPYPFRGEFCSQGVREGLIVGFVHSMCQTAQSFCDSPGEKGGATPPALLL  
LLSRLCLDYETATISYILTLTDEQFLVQDQFPVTPVSTLCAEARETARRLLTHYVKVQGLVISQMLRKSVETRDW  
LSTLEPRNVRAMKRVVEDTTAIDVQVGLLYEEGVRKAQSSDSSKRTFSVYSSSRQQGRYAPSYTPSAPMDTNLL  
SNIQKLFSERIDVFSPEFVNKVSVLGTGIKISLKTLLCEVRLRTFGRFGLQQVQVDCHFLQLYLWRFVADEELVH  
LLLDEVVASAALRCPDPVPMEPSVVEVICERG

3556/6881  
**FIGURE 3281**

GAGGGATAATCGGGGCGGCCGGGGCTGAAGGGAGAGGCGCAGGAGCCCTGGGGAGAGTGGTCCCTGCCCTTCCGC  
GCCTCGAGCCATCGCTACCGCCCTTCGGAACCAGTGCAGCGGCCGATCAGTAAACACAGAGACTGGGGATCGATC  
ATGGGGCTTTGTAAGTGCCCCAAGAGAAAGGTGACCAACCTGTTCTGCTTCGAACATCGGGTCAACGTCTGCGAG  
CACTGCCTGGTAGCCAATCAGCCAAGTGCATCGTCCAGTCTACCTGCAATGGCTCCAAGATAGCGACTACAAC  
CCCAATTGCCGCCTGTGCAACATAACCCCTGGCCAGCCGAGAGACGACCCGCCTTGTCTGCTATGATCTCTTTCAC  
TGGGCCTGCCTCAATGAACGTGCTGCCCAGCTACCCCGAAACACGGCACCTGCCGGCTATCAGTGCCCCAGCTGC  
AATGGCCCCATCTTCCCCCAACCAACCTGGCTGGCCCCGTGGCCTCCGCACTGAGAGAGAAGCTGGCCACAGTC  
AACTGGGCCCCGGGCAGGACTGGGCCTCCCTCTGATCGATGAGGTGGTGAGCCAGAGCCCGAGCCCTCAACACG  
TCTGACTTCTCTGACTGGTCTAGTTTTAATGCCAGCAGTACCCCTGGACCAGAGGAGGTAGACAGCGCCTCTGCT  
GCCCCAGCCTTCTACAGCCAGGCCCCCGGCCCCAGCTTCCCCAGGCCGGCCCGAGCAGCACACAGTGATCCAC  
ATGGGCAATCCTGAGCCCTTGACTCACGCCCCCTAGGAAGGTGTATGATACGCGGGATGATGACCGGACACCAGGC  
CTCCATGGAGACTGTGACGATGACAAGTACCGACGTGCGCCGGCCTTGGGTTGGCTGGCCCCGGCTGCTAAGGAGC  
CGGGCTGGGTCTCGGAAGCGGCCGCTGACCCCTGCTCCAGCGGGCGGGGCTGCTGCTACTCTTGGGACTGCTGGGC  
TTCCTGGCCCTCCTTGCCCTCATGTCTCGCCTAGGCCGGGCCGAGCTGACAGCGATCCCAACCTGGACCCACTC  
ATGAACCCCTCACATCCGCGTGGGCCCCCTCCTGAGCCCCCTTGCTTGTGGCTAGGCCAGCCTAGGATGTGGGTTCT  
GTGGAGGAGAGGCGGGGTAATGGGGAGGCTGAGGGCACCTCTTCACTGCCCCCTCTCCCTCAAGCCTAAGACACTA  
AGACCCCAGACCCAAAGCCAAGTCCACCAGAGTGGCTGCAGGCCAGGCCTGGAGTCCCCGTGGGTCAAGCATTG  
TCTTGACTTGCTTTCTCCCGGTCTCCAGCCTCCGACCCCTCGCCCCATGAAGGAGCTGGCAGGTGGAATAAA  
CAACAACTTTATTAAAAC

3557/6881  
**FIGURE 3282**

MGLCKCPKRKVTNLFCEHRVNVCEHCLVANHAKCIVQSYLQWLQSDYNPNCRLCNIPLASRETTTLVICYDLFH  
WACLNERAAQLPRNTAPAGYQCPSCNGPIFPPTNLGPVASALREKLATVNWARAGLGLPLIDEVVSPEPEPLNT  
SDFSDWSSFNASSTPGPEEVDSSASAAPAFYSQAPRPPASGRPEQHTVIHMGNPEPLTHAPRKVYDTRDDDRTPG  
LHGDCDDDKYRRRPALGWLARLLRSRAGSRKRPLTLLQAGLLLLLGLLGFLALLALMSRLGRAAADSDPNLDPL  
MNPHIRVGPS

3558/6881  
**FIGURE 3283**

GCAGCGAGTGGCCTTCCCGGTTGGCGCGCGCCCGGGGCGGCGGCTGGAGGAGCTCGAGACGGAGCCTAAGTTA  
TGTCTGGGAGGCGAACGCGGTCCGGAGGAGCCGCTCAGCGCTCCGGGCCAAGGGCCCCATCTCTACTAAGCCTC  
TGCGGAGGTCCCAGCGGAAATCAGGCTCTGAATCCCGAGCATCTCCCTGAAATCTGGCCGAAGACACCCAGTG  
CGGCTGCAGTCAGAAAGCCCATCGTCTTAAAGAGGATCGTGGCCCATGCTGTAGAGGTCCCAGCTGTCCAATCAC  
CTCGCAGGAGCCCTAGGATTTCTTTTTCTTGGAGAAAGAAAACGAGCCCCCTGGCAGGGAGCTTACTAAGGAGG  
ACCTTTTCAAGACACACAGCGTCCCTGCCACCCCCACCAGCACTCCTGTGCCGAACCCTGAGGCCGAGTCCAGCT  
CCAAGGAAGGAGAGCTGGACGCCAGAGACTTGGAAATGTCTAAGAAAGTCAGGCGTTCTTACAGCCGGCTGGAGA  
CCCTGGGCTCTGCCTCTACCTCCACCCCAGGCCGCGGTCTGCTTTGGCTTCGAGGGGCTGCTGGGGGCAGAAG  
ACTTGTCCGAGTCTCGCCAGTGGTGTGCTCCAACTCACCAGGTTCCCAGGGTTTGTGCAAAGCCCTGGGCCC  
CAGACATGACTCTCCCTGGAACTCTCCCCACCACCCGAGAAACAGAAACGTAAGAAGAAGAAAATGCCAGAGATCT  
TGAAAACGGAGCTGGATGAGTGGGCTGCGGCCATGAATGCCGAGTTTGAAGCTGCTGAGCAGTTTGATCTCCTGG  
TTGAATGAGATGCAGTGGGGGTGCACCTGGCCAGACTCTCCCTCCTGTCTGTACATAGCCACCTCCCTGTGGA  
GAGGACACTTAGGGTCCCCCTCCCTGGTCTTGTACCTGTGTGTGTGCTGGTGTGCGCATGAGGACTGTCTGCC  
TTTGAGGGCTTGGGCAGCAGCGGCAGCCATCTTGGTTTTAGGAAATGGGGCCGCTGCCAGCCACTCACTGGTG  
TCCTGTCTCTGTGCTCTGTCTCTCTATCTCCCCAAAGTACCATAGCCAGTTTCCAGATGGGCCACAGACTGG  
GGAGGAGAATCAGTGGCCAGCCAGAAGTTAAAGGGCTGAGGGTTGAGGTGAGAGGCACCTCTGCTCTTGTGGG  
AGGGGTGGCTGCTTGGAAATAGGCCAGGGCTCTGCCAGCCTCGGCCCTCTCCCTCCTGAGTTGCCTTCTGTTGGT  
GGCTTTCTTCTGAACCCACCTGTGTAAAGAGGTTTTAGTTCGGTGGGTTTCCCTTTGATTCTGTAAATAGTC  
CCAGAGAGAATTCGTGGGCTGAGGGCAATTCTGTCTTGAGGAAGAAGCTGGACATTCAGCCTGTGGAGTCTGAG  
TTTTGAAGGATGTAGGGAGCCTTAGTTGGGTCTCAGACCATAAGTGTGTACTACACAGAAGCTGTGTTTTCTAGT  
TCTGGTCTGCTGTTGAGATGTTTGGTAAATGCCAGGTTGATAGGGCGCTGGCTGCTTGGAGCAAAGGTTGCATTT  
CAGGGTGTGGCCACCAGGTGCTGTGAGTTTCTGTGGCTCATGGCCTCTGGGCTGGTCCCTTGACAGGGCCACG  
CTGGAGTCTTACCACTCTGCTGCAGGGGTGGAAGGTGGCCCTCTGTACCCATACCCATTTCTTACAAAATAA  
GTTACACCGAGTCTACTTGGCCCTAGAAGAGAAAGTTGAAGAGTCCCAGACCTACTAGCATTTTGCAACTATGCT  
TGTAAGTCTCGGAAAGTTTCTCGCGTACCAGACAGCGCGGGGGCTGATAGCAATTTTAGTTTTTGGCCTCC  
CTATCCTCTCACATGAGAACACTGCCTGGATGCACTCATGATCTCTGGAGAATTTCCCCATCTTTCTTCTTTT  
CCATCGTGTGGATTCAATAGTGTGGATTTGAAGGCTGCCCTGCCCCCGACTCTCCTGCCGCACCCCTGGCCATTG  
TACCTTTTGATGTTTAGAAGTTCGTGGAAGTAGACGCTGAGGTGTGCAGAGGAGCTGGTGGATAACAGAGAATGC  
CAGGGAAGATGAGTGTGGGTGAGGTAAGTGGATGAAACGGTGCAGGCCAGGCGGGCCCTAATAAAACCCCTCTG  
CCAGGTCTGGGAGTCCCAGGCCATCTGCTCAACGCTCTGTGGTTTGTGAGACCTGCAAGCAAGCCCCCTGCTGGG  
GAAGCCTAGGTGTCTTGGAGCTGAACCGCACTGAAGAACTCTTGTCTCACTGGCTGATGCAGCAGAACTCTTGG  
GAAATGTCTTAGTCTGAGAAATCAGGAGTACCAGATGATGCAGAGTTGAGATCATCATTGCAAAGTTCTCTGT  
TCCTGAGGAACATAAATTTAAGGAAAAAATGGGATTTGTTTTAGAGTTGGAAAAAAGCCTGATTAAAGAGTTTC  
TGCCCTGTT

3559/6881

**FIGURE 3284**

CTCCGGGGCCCATGGGGCTCCTGACCATTCTGAAGAAGATGAAGCAGAAAGAGCGGGAGCTGCGACTGCTCATGC  
TTGGCCTGGACAATGCTGGAAAGACAACCATCCTGAAGAAGTTCAATGGGGAGGACATCGACACCATCTCCCCAA  
CGCTGGGCTTCAACATCAAGACCCTGGAGCACCGAGGATTCAAGCTGAACATCTGGGATGTGGGTGGCCAGAAGT  
CCCTGCGGTCTACTGGCGGAACACTTTGAGAGCACCGATGGCCTCATCTGGGTAGTGGACAGCGCAGACCGCC  
AGCGCATGCAGGACTGCCAGCGGGAGCTCCAGAGCCTGCTGGTGGAGGAGCGCCTGGCCGGAGCAACCCCTCCTCA  
TCTTTGCTAATAAGCAGGACCTGCCTGGAGCACTGTCTCTAACGCCATCCGCGAGGCCCTGGAGCTGGACTCCA  
TCCGCAGCCACCACTGGTGCATCCAGGGCTGCAGCGCCGTACCGGGGAGAACCTGCTGCCGGGCATCGACTGGC  
TCCTGGATGACATTTCCAGCCGCATTTTCACAGCTGACTGAACCACTCCAGATGCCCCCACCCTAGCAGTCCAGG  
TCCCTCAACCTTCACCAAACACTACCCATGGGGGGTTGGGAGTCAGCCGGCCAAACTAACACTCCCCCTCCTCCA  
CCCCAGCCTGCTGCTGCTACTGCTGCCGCTGCTGCTCTGTGGCCACCCGGCTCCCATGGCGGGAGGCTGTGCCCT  
GGCTGTCTCTCTGGCTCCTGACCTGGCCTTTGGCTACCATACCAAGAAGAGAGGGCTGGGCGGGGAGGAGCTGCT  
ACTGCTGCTACCGAGGCTGTGGGCCTCATCCTTCACTCAGTTGTGAAATAAACCGCTCCTTGCCCCGAAAAAAA  
AA

3560/6881  
**FIGURE 3285**

MGLLTILKKMKQKERELRLMLGLDNAGKTTILKKFNGEDIDTISPTLGFNIKILEHRGFKLNIWDVGGQKSLRS  
YWRNYFESTDGLIWVVDSDRQRMQDCQRELQSLLEERLAGATLLIFANKQDLPGALSSNAIREALELDSIRSH  
HWCIQGCSAVTGENLLPGIDWLDDISSRIFTAD

3561/6881  
**FIGURE 3286**

ATGAATGCAGCACTGAGCTCTGTTTGCCCTCTAAGCTTGTCCCCAGAAAAACAAGATATACCCTAAATATGCAC  
GATCTGATTTTCTGGAGAGATGTGAAGAAGACTGGGTTTGCTTTTGGCACCACGCTGATCATGCTGCTTTCCCTG  
GCAGCTTTCAGTGTCATCAGTGTTGGTTTCTTACCTCATCCTGGCTCTTCTCTCTGTCACCATCAGCTTCAGGATC  
TACAAGTCCGTCATCCAAGCTGTACAGAAGTCAGAAGAAGGCCATCCATTCAAAGCCTACCTGGACGTAGACATT  
ACTCTGTCCTCAGAAGCTTTCCATAATTACATGAATGCTGCCATGGTGCACATCAACAGGGCCCTGAAACTCATT  
ATTCGTCTCTTTCTGGTAGAAGATCTGGTTGACTCCTTGAAGCTGGCTGTCTTCATGTGGCTGATGACCTATGTT  
GGTGCTGTTTTTAACGGAATCACCCTTCTAATTCTTGCTGAAGTGTCTATTTTCAGTGTCCCGATTGTCTATGAG  
AAGTACAAGGAGATGGGCCACTAA



3562/6881  
**FIGURE 3287**

GGCCTGAGGGCGCCGCACTCGACTGCTTCGAGGTGACGCTGAAATGCGAGGAAGGGGAGGACGAGGAGGAGGCCA  
TGGTGGTGGCCGTAATTCCGCGGCCCGAGCCGATGCTCAGAGTGACCCAACAGGAGAAGACCCACCGCCTAGAC  
CCAGCCCGCTAGAGGCAGGCAGTGATGGCTGTGAGGAGCCGAAGCAGCAGGTGTCTTGGGAGCAGGAGTTCTTG  
TGGGCAGCAGCCAGGAGGCAGCGGGCGGGCACTGTGCATGGTGTGTGGCGCTGAGATCCGGGCACCCCTCGGCCG  
ACACAGCTCGCTCGCACATCTTGAGCAGCACCCCTCACACCTTGGACCTGAGCCCTTCTGAGAAGAGCAATATCC  
TGGAGGCCTGGAGTGAAGGGGTGGCCCTCTTGCAAGACGTGAGAGCTGAGCAGCCGTCCCCACCCAACCTCAGACT  
CGGGCCAGGATGCCACCCAGACCCAGACGCCAACCCAGACGCTGCCAGAATGCCAGCCGAAATCGTCGTTCTCC  
TTGACTCTGAGGATAACCCATCCCTCCCTAAAAGGAGCAGGCCCAGGGGACTCCGCCCCCTCGAGCTTCCTGCTG  
TCCCTGCCACAGAGCCAGGAAATAAGAAGCCCGTGGTCAGAGATGGAAGGAACCCCCAGGGGAAGAGCCAGTCA  
GAAAGAAAAGAGGCAGACCTATGACCAAAACCTGGACCCTGACCCAGAGCCCCATCGCCAGACTCGCCCCACGG  
AGACTTTCGAGCAGCACCAGCCGAGGTCCGACACTTCACTGACGGCAGCTTCCCCGCCGGCTTCGTCTTGACGCTCT  
TCTCCACACCCAGCTCAGGGGCCAGACAGCAAGGACTCACCAAGACAGGGAAGTGGCAGAAGGAGGCCTTC  
CCGGGGCGGAGAGCCCCCTCTCAGCTCCCCCTCCGGGGCTCCGCGGGACACTGGATCTCCAGGTATCCGCGTGC  
GGATGGAGGAGCCCCCAGCGGTCAGCCTCCTGCAAGACTGGTCCAGGCACCCCCAGGGCACCAAGCGTGTGGGAG  
CAGGTGACACCTCAGACTGGCCACAGTTCTGTCAGAATCCAGCACCCTGTGGCAGGGAAGCCGAAAAAGGGA  
ATGGAGTGTAATTCTTGCTTCCTGGGGAGGGAGGGAGGGATGAGGCAGCGTCCCCAGTGGCTTATAACTCAG  
AGCTGCCTGGCTCACCACCTGGTGGAGAGAGTAGAAACAGGTGCCAGGGCAGGAGGGGGCTGGGGCAGCATCCA  
CTGTTATTCGGGGCACTGGAAAGTGTCTGTTCTCGCCAGGCCTGAGGTTCGGCGAGGGTGGCTGAGGCTGTTGT  
GCAGTAGGGCACTGGGCCTGTGGAGAACACCTACCCAGTCCTTCGCTGACCCCCACCTCTGTTTGTCCCCATG  
ACCTCCTCCACCCCTCCCCCTGCTCCCCACCATTTCTCCCTTGGCACAGTGCCCTTACACAAGAGTGGTCATAAGGG  
GGTTTGAAGTGAAGTCCCACTACCTCGGGGGACACCTCTCCTCCCACTTGTTTCAGGCTTCTAAACCAGGAGGCCT  
CCATTACCTCTTCCTGTCCACCCCTGCAGAGGCCTGAAGCTGGGCCTGGGCACCCCATTCCTCCCGTTCTCAT  
TTACATCTGTTTCCTGTTGTATATATCACCTTGTGACAATAAATTATTTTTTTTATT

3563/6881  
**FIGURE 3288**

GCGCCCAGCCGCTGAACGGCGTGGGCAGGTGGGCGGTGGGGTTCCAGGGCGCCCCGAGGACAGGGGGCCCCGACT  
TCAGGGGAACCCCAACCCTGAGGGGCGTACATAGTAATCACGCCCCAGCCGCACCGGACCTTGCGCTCATCCCTT  
GCGTCCCCCACTTCTGCACAACTTTTCTGACGCCCTGGCTCGTGGGGGTCTGAGAGCGCTGGGGCTACCAGG  
TGGGCTCCACCCCGCCGACCCCTAGCCACGCTGACCTCCTGCCTCTCCTAACCTCAGTGGCGACCTCTCCAGGC  
CGGGCCGGGCTCGGCACTCGGAGCGAGTGGGCAACCACTGTGCTCTCCGAAGGCTCCTGCGCCCCCGGGGCA  
GCTGGGCGGGTAATGCCCTCAGTGATGGAGAAGCCGAGCGGGGCTCTGGGATCCTGTCCCGTAGCCGGGCCAA  
GACGGTGCCCAACGGCGGACAGCCCCACTCGGAGGATGACAGCAGCGAGGAGGAGCACTCGCACGTCCCTTCTGT  
GGCTGCAGACAGCATGATCCGCGTTGGAACCAATTACCAGGCCGTAATTCCGGAGTGCAAGCCTGAGAGCCCCGC  
ACGCTACAGCAACAAGGAGCTGAAGGGGATGCTGGTGTGGTCACCCAACCACTGTGTGTGATGCCAAGCTTGA  
CAAGTACATTGCGATGGCCAAGGAGAAGCATGGCTACAACATTGAGCAGGCGCTGGGCATGCTTCTGTGGCATAA  
GCACGATGTGGAGAAGTCGCTGGCCGACCTGGCCAACCTCACCCCATTCCTGACGAGTGACAGTAGAGGACAA  
GGTGCTGTTTGAACAGGCCTTTGGCTTCCATGGCAAATGCTTCCAGCGGATCCAGCAGATGCTGCCTGACAAGTT  
GATTCACGCTGGTGAAATACTACTACTCTTGGAGAAGACCCGAGCCGAACCTAGTGTGATGGACAGACAGGC  
CCGGCGGCTGGGGGGCCGCAAGGACAAAGAAGACAGTGATGAGCTCGAAGAGGGTCGAGGAGGCGTGAGTGAGGG  
AGAGCCCGATCCTGCAGATCCCAAGAGAGAGCCTCTACCTCTCGGCCCTGAATGCACGCCCCAGGCCCTGGGAA  
AAAGGAGGTCCAGGTGTCTCAGTACCGCCACCATCCCTTGCGAACC CGCGCTCGCCACCCAAGGGCATGTACCT  
GAGCCCTGAAGGCCCTACGGCAGTGTGAGGAAGCCCGGACCTTGCCAACCTCACGCTCCGAGGTCTTGACTCTCA  
GCTCATCTCCCTCAAGCGCCAGGTACAGAGCATGAAGCAGACGAACAGCAGCCTGCGCCAGGCCCTGGAGGGCGG  
TATTGATCCACTACGCCCCCGGAGGCCAACACCAAGTTCAACTCCCGCTGGACCACAGATGAGCAGCTTTTGGC  
TGTTCAAGCCATCCGTAGGTATGGCAAAGACTTTGGGGCTATTGCAGAGGTGATTGGGAACAAGACTCTGACCCA  
GGTGAAGACTTTCTTTGTGAGCTACCGGCGCCGCTTCAATCTGGAGGAGGTGCTGCAGGAATGGGAGGCTGAGCA  
GGATGGGGCCCCCTGGAGCCCCAGTCCCCATGGAGGAGGCTAGGAGAGGGGCTCCATTGCCAGCCCCAGCCCTAGA  
GGAAGATGATGAGGTCCAGATTACATCGGTCTCCACGTCCGTGCCCCGATCAGTGCCCCCTGCGCCACCACCCCC  
TCCACCTCCCACCTCGTGTCCCAGCCACCCCCGCTGCTGAGGCCACCTTTGCCACGGCTCCCACTCTGCTCCG  
ACAGCCACCCCCACTGCAGCAGGGCCGCTTCTCCAGCCCCGGCTGGCCCCCAACCAGCCCCCACCGCCTCTCAT  
CCGCCCCGCTCTGGCTGCCCCCGCCACAGCGCCCGCTGGCCCTCAGCCCCCAACCACCTGATTGGAACCCC  
TCTGGAGCCCCCAGCACCTCACTCTGAGCCCTGACGTCTCCACCAACCACGGGCTCCAGGACCCCTTTGCTGG  
CCATCCCCAGGCATCTCTGGTGTCACTGAGGACAGAAGGGACTAGGGCTCTGGCGGGTCTTTGTAAGACCAGAG  
TTTCGGACAGCCAGCCCCGCCCTTTGGGTTCTGCATGTGTTCTTGGCAGCTGGGCCTGTCTCCTGGGGCCATGG  
CCGGGCTCAGGGGCCTTTGAGCTGGCCTGAGGGCACTTTCGCTTCTTGGCCGGTACTGGAATGGCTGTGTCTTAG  
TCTGTGGGGCTTGGCCTCTGGGTCTGCCCTTTGTGTGTCCGGGGTAGTGACCTTAGCGTGAGTGAGGGAGAGG  
GCAGTTGGGTGTGCTGGCTGTCTCATTCTCTTTCCCTTCTTTAGCAATAAGTCTGGGGTGAGGTGGGGAGGG  
AGGCTGCAGGGGGGGAGGTGGGCAGAGGGGCCTTACAGCAGCAGAGGCTGGAAGAGAAGCTCTGTCTTCAGGGC  
CAGCTGGGAAATGCTAAGGAGCTGAGGGTGCCCAACCAAGCCACCTTCCAGAACTTGAGAAATGGGGGTGGG  
AACTTATGCAGACATGGATTATTATTTTCAACATTTTTTAAAAATTAATAAATAAATAAATCTAA

3564/6881  
**FIGURE 3289**

CCTCGTGCCGAGTTCTGCCACCGTCACTGAGAAGCTCAGCGGTAGCTTTTGGGAAGCAGGACGTTCTCACCAGG  
AGAGCGTCCTCTCGAGATTCTGCTCCCTCCATTGAGGGCGTTTGGGAGCCACCCCTTCATTTTTTAAAAAAGT  
ATTTCTCTGTGACCGACGCGCGGGGCCCTTCTGACGGTCTGAGGTCTTGCTTGGGCCAGTCACCTCCTGTACGGT  
CCGCGGAGGGGGGAAGGATAAGAGGGCGAGGAGCTCATCGCTCGCCACCCCGTGGGCTTCTTGGGCGCAGGTCG  
GAGCTGGGTGGGCGGGCTCCCGGGCCCTGGCTTGGGCGACCATGTCCGCATCCGCCAGCAGCTGGCGGAGGAG  
CTGCAGATCTTCGGCTAGACTGCGAGGAGGCTCTAATTGAGAAATTGGTAGAGCTTTGTGTTAGTATGGACAG  
AATGAGGAGGGAATGGTAGGCGAGCTTATAGCCTTCTGCACCAGCACACATAAAGTTGGCCTTACCTCAGAGATC  
CTGAACTCTTTGAGCATGAGTTTCTGAGCAAAAGATTATCGAAAGCCAGGCATAGTACCTGCAAGGACAGTGGC  
CATGCAGGAGCTAGAGACATTGTTTCCATTCAAGAGCTAATTGAAGTGAAGAAGAAGAGGAAATCCTCTTGAAC  
TCTTACACCACACCTTCAAAGGGTTCTCAGAAGCGAGCTATCTTACCCAGAAACCCCTTAAACAAAAGGAGT  
GTGTCAACTCGTAGCCCCATCAGCTACTCTACCGTCAAGTTCTCTCCAAGTGCTACTCCCTCCAGAAATAC  
AACTCACGAAGTAACCGAGGAGAAGTGGTTACCTCCTTCGGCTTAGCACAGGGAGTATCTTGGTCTGGGAGAGGA  
GGAGCTGGAACATCAGCCTGAAGGTCTTGGGATGTCCAGAGGCACTAACTGGGAGCTACAAATCCATGTTTCAG  
AAGCTCCAGACATTTCGAGAAGTTCTGACCTGTAAGATAGAAGAACTTGGCAGCGAACTCAAGGAACATTACAAG  
ATTGAAGCTTTCCTCCTTTGCTAGCCCCAGCACAGGAGCCTGTCACTCTGCTGGGCCAGATTGGCTGTGATAGC  
AACGGGAAGCTGAACAACAAGTCAGTGATTCTCGAGGGAGACCGGAACATTCTCGGGTGCTCAAATTCCAGTG  
GATTTATCTGAGCTTAAGGAATATTCTCTGTTTCTTGGACAGGTTGTAATTATGGAAGGAATCAACACCACTGGT  
AGGAAACTTGTGTCACCAAACTCTACGAGGGTGTGCCACTTCCATTTTATCAGCCCACTGAAGAGGATGCAGAC  
TTTGAGCAAAGCATGGTCTGCTGCTGTGGACCATAACACCATCTGACAGCATCACGTATGACCCCTGCTT  
GACCTGATTGCTGTCTATCAACCATGACCGCCAGATGTCTGCATCCTGTTTGGCCCTTTCTGGATGCTAAGCAT  
GAACAGGTGGAGAATTGTCTACTGACAAGTCCATTGAAGACATTTTCAAGCAGTGTCTACGAACAATTATTGAA  
GGCACAAGAAGTCCGGCTCCACCTTGTCTTTGTCCCGTCAATTGAGAGATGTGCACCATGAGCCTGTGTACCCC  
CAGCCGCTTTTCTAGCTACTCCGATCTGTCTCGAGAGGACAAAAGCAAGTACAGTTTGTGTCCGAGCCCTGCAGC  
CTCTCCATAAACGGAGTGATCTTCGGCTTGACATCCACAGATCTGCTTTTCCACCTGGGGGCCGAGGAGATCAGT  
AGTTCTTCCGGAACCTTCAGACAGATTGAGCCGAATACTCAAGCACATCTTGACCCAGAGGAGCTACTACCCACTC  
TACCCGCCCCAAGAAGACATGGCCATTGACTATGAGTCTGTTCTATGTTTACGCACAGCTGCCTGTACCCCAAGT  
GTCTCATATCCCGTCAGAGCTGAGGTACTTCGTGAAGGATGTCTCGGCTGTGTCTGTGTGAACCTGGGCGC  
CTTACCAAAGGGCAGGTGGGAGGCACCTTCGCCCCACTTACCTTAGGAGGCCGGCAGCGGACGGGGCAGAGAGG  
CAGAGCCCATGCATTGCTGTGTCAGGTGCTCAGGATCTCAGGCTTCTGTCTCTGCTGTCTGTGTGGGCC  
CTTAAAGTCTTAGCCAAGAGCCAAGACATAGCCCTGTGACAAGGTGAACAGTTGGGTGGGAAAGGAGAGAGGAGC  
CAGCCAGGGAGGGGAGCTGCAGTGACCAGGCCAGCAGGGAGGACTTGTGCAGCCGGGCTGCCTCTGAGTGGT  
GCCTCTCCTGGAAGGAAGCTCTTGCTTCTCAGTCCATGCTCCGTGTCCAGAAGTAAGCCAGCTGTGGATCCCGCC  
CACTCAGAAAAGGCGAGAAGGCTTTGTGATTTTCTACATGAATCAACACAGAAACAACCTTTGGAGAAATTAA  
TTCTGAGTGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3565/6881  
**FIGURE 3290**

MSASAQQLAEELQIFGLDCEEALIEKLVELCVQYGQNEEGMVGELIAFCTSTHKVGLTSEILNSFEHEFLSKRLS  
KARHSTCKDSGHAGARDIVSIQELIEVEEEEEIILLNSYTTPSKGSQKRAISTPETPLTKRSVSTRSPHQLLSPSS  
FSPSATPSQKYNRSNRGEVVTSTFGLAQGVSWSGRGGAGNISLKVLCPEALTGSYKSMFQKLPDIREVLTCKIE  
ELGSELKEHYKIEAFTPLAPAQEPVTLGQIGCDNGLNKNKSVILEGDREHSSGAQIPVDLSELKEYSLFPGQ  
VVIMEGINTTGRKLVATKLYEGVPLPFYQPTTEADFEQSMVLVACGPYTTSDSITYDPLLDLIAVINHDRPDVC  
ILFGPFLLDAKHEQVENCLLTSPFEDIFKQCLRTIIEGTRSSGSHLVFVPSLRDVHHEPVYPQPPFSYDLSREDK  
KQVQFVSEPCSLSINGVIFGLTSTDLLFHLGAEIISSSSGTSDRFSRILKHILTQRSYYPLYPQEDMAIDYESF  
YVYAQLPVTDPVLIIPSELRYFVKDVLGCVCVNPGRLTGQVGGTFARLYLRRPADGAERQSPCIAVQVVRI

3566/6881  
FIGURE 3291A

GGAATTCTCTGGGGCTTTGGGGAATTTAGTGCCTGGGTGAGCCAAGAAAATACTAATTAATAATAGTAAGTTGTT  
AGTGTGGTTAAGTTGTTGCTTGGAAGTGAGAAGTTGCTTAGAAACTTTCCAAAGTGCTTAGAACTTTAAGTGCA  
AACAGACAACTAACAAACAAAAATTGTTTTGCTTTGCTACAAGGTGGGGAAGACTGAAGAAGTGTTAACTGAAA  
ACAGGTGACACAGAGTCACCAGTTTTCCGAGAACCAAGGGAGGGGTGTGTGATGCCATCTCACAGGCAGGGGAA  
ATGTCTTTACCAGCTTCCTCCTGGTGGCCAAGACAGCCTGTTTCAGAGGGTTGTTTGTGTTGGGGTGTGGGTGTT  
ATCAAGTGAATTAGTCACCTTGAAAGATGGGCGTCAGACTTGCATACGCAGCAGATCAGCATCCTTCGCTGCCCT  
TAGCACTTAGGTGGTTGATTGAAACTGIGAAGGTGTGATTTTTTCAGGAGCTGGAAGTCTTAGAAAAGCCTTG  
TAAATGCCATATTGTGGGCTTTAACGTATTTAAGGGACCACTTAAGACGAGATTAGATGGGCTCTCTGGATT  
TGTTCTCATTTGTACAGGTGCTTGTGATTGAAAATCATGAGCGAAGTGAAATGCATTGAATTTCAAGGGAA  
TTTAGTATGTAAATCGTGCTTAGAAACACATCTGTTGCTTTTCTGTGTTTGGTCGATATTAATAATGGCAAAA  
TTTTTGCTATCTAGTATCTTCAAATTGTAGTCTTTGTAACAACCAAATAACCTTTGTGGTCACTGTAATAATTA  
ATATTTGGTAGACAGAATCCATGTACCTTTGCTAAGGTTAGAATGAATAATTTATTGTATTTTTAATTGAATGT  
TTGTGCTTTTTAAATGAGCCAAGACTAGAGGGGAACTATCACCTAAAATCAGTTTGAAAACAAGACCTAAAAA  
GGGAAGGGGATGGGGATTGTGGGAGAGAGTGGGCGAGGTGCCTTACTACATGTGTGATCTGAAAACCTGCTT  
GGTTCTGAGCTGCGTCTATTGAATTGGTAAAGTAATACCAATGGCTTTTTATCATTTCCTTCTTCCCTTTAAGTT  
TCACCTGAAATTTAAAAATCATGGTTATTTTTATCGTTGGGATCTTTCTGTCTTCTGGGTTCCATTTTTAAAT  
GTTTAAAAATATGTTGACATGGTAGTTCAGTTCTTAACCAATGACTTGGGGATGATGCAACAATTACTGTCTGTT  
GGGATTTAGAGTGATTAGTCACGCATGTATGGGAAGTAGTCTCGGGTATGCTGTGTGAAATTGAACTGTAA  
AAGTAGATGGTTGAAAGTACTGGTATGTTGCTCTGTATGGTAAGAACTAATTCTGTACGTACGTACATAATTA  
CTAATCACTTTCTTCCCTTTACAGCACAAATAAGTTTGAAGTTCTAAACTCATTAGAATTGTTGTATTGCTAT  
GTTACATTTCTGACCCCTATCACATTGCCTTCATAACGACTTTGGATGTATCTTCATATTGTAGATTAGGTCT  
AGATTTGCTAGCTCCAAGTAATTAAGGCCATGTAGGAGAGCATGGTAACCACAGATAGAAGTGGTATTATCCCAA  
GTGGTCTGCAGACTGCTGAGTGGGATGGGATCTGCTCTCTGTTGAGAGTTGGTAATCATTGGTTTGAAATGTGA  
TGAAACCACTCAAGCCAATGAAGGTGGGTGTGTAGGTGGGGAGTACTTTGCCATAATATTTTAAACATTACCTG  
GTTAGAGTTCTAAGTGGTACTTATTTTTGTTTGGTTAGGGGAAAGCCTGAATAAAAACAGAAATGGACACATAAT  
ATGCATATTCATAGTCTTTGGGAGGCTGGAATGTGCCTGGGATTGGGTCTAAGTGTATGCGTAATCTTACCT  
CACTAAAGAATTTGCCTTGTTTTTTTCCCTTTTGGTGAGTGACTAAAACGTCTGGGCTTCCCTGTGTGCGTGCTAC  
AGTAAGCAAGCAGAGGCTGTGCAAAGGTGTGAGCAGGATCACGTGGAATCTGGAGGATACATCTTGGCTTGCAAA  
CTGCCCTCTGTCTCCTGGGTGGGACTGTTCTGTCTTGCACCTGCTGTTCTGTGTTACCTCTTGGGGTGTAGGTTT  
TGCTTACAGGAGACAACTTTGGGCGTAGAATGGAAGCCACTGCCAGCCTCTGTGCTGAGAAGGAAGGTGCTTGT  
TTCAAAGGGAGCAGCAAGGGAGGCTTGTTCTACTCACTGGGCCTGTTTGCCTGAGAAGGGGAGATAAGGGCTGA  
ACTGGGACTAGCCAGGGGGACCAACACAAATGGTGGGGATCATGACCTGAAGGATCTTTCTTCCCATGAGCT  
GCAGGGCTGGTTGCCGTCTTGCAACTGTGTCTTATTGCTGTGCCGTATATCTTGGTGACCCCTCCACGTGT  
ACACTACTGACAAACGGGTGGAGTGTGGGGAGAAGTCACTGTGCCGCCACCTAGTAAACCTTCTGTCTGTGCT  
CATGGCATCTCCAAGATGGGGCACTGCTGTGTGCAGAAATCCAGGGTCTCTTTCTGCTTGCAACTCCTTTCCCTG  
GATGCCCCAGAAACAATCCAGGCCCTCTTCTATCTTACCCCTTTGCTTTGCTTTTTACCCAGCACCTCTATA  
ACCGCCTTCTCTTCTTTTTCAGAACTCCTTGTTTCTCATCTGTTTTTTATGATTACAAAACCTCTTGCTTCCACCC  
TGGAAGATAACTGCTATAGATGCCTGTATGTAAATGGTGTCTCTCCAGCAACTGGCATGCTGAAGAAGAATTGA  
TTCACGGGGTATAAATGTTGGGGATTGGAAGTGGGGATGAAATGGCACTTGTTGATACAGGAGCAGAGAGGTGAG  
GCCGACTGCTGAAGACAGCTCGCCACCCTCCTTGCTCCACTCCAATCCAGGGGCTGGGGCCACATTCTTTGCCT  
TCATTTATCCTCAGATCAGGTGAGATCGACAGGAGGTGTTGATGGCAGTGCCAGCAATTATGCTAATCCGTTTG  
CATCCTTATGCATAGATCTGAATTCAGACTTTGTGAATTTCCAGAGGTGTGGGTAATATAATAGAATTCAGTGAG  
TGGGCATGGCTGATCTTGTGCAATTTAAAGTTATGGGGCATAAGAAATAGCAAAAGTTGAACCTCTTTTAAAG  
GAAAGTACCCTGAGAGCCAGTATTGGTTGAGGCTCTTCACTATGCCAGGTGGCAGCACTGAGAACCAGCAGGAA  
CGGCTGTGTTTACAAAAGGAGATTGACTCAGCTGCCCTTGGTGCATCTGACTGACTATGACTGCTGAGAGATT  
CCAAGGACCCTTAATGCCAGGGCTAACCTCTCATGTGCAGTGAGACCTCTGGAGGAAGTGTATCCTCTGGCTT  
TGTGTGGTACTCATTATGGTGCAGTGGGGCATGAAATGAAGACACCCAAATAGGCTTACAGATACGATATGTTT  
TAAATGTTGCTATTTAACAAAACATACTGACACTGTTTGAAATGGCAACAGGAAGATAGCAAAATGAATACTA

3567/6881  
FIGURE 3291B

[illegible]

3568/6881  
FIGURE 3291C

TTTTTCCTCTTTGACCACTAACCATGTGAAATTCTCATATTGACCTTTATAATGATCATGAACTCTTAGTATCAT  
TGGGAAGGCCACATTGCCACTTATGATTGTAAACCTTATCCTCCATTTTCCTGTTATTGTTGGTGCAAAAAGC  
ACCTATTATACCAGGACTTTAAAAATCAGTCTGATAAGTCTTTGATAAGTCTAATAATAATAACTGATAAGTCCA  
TTGAATTTGCTTCTGATTACTTTTTCTTTAGTAGCTAAACATGTATGTACTCCTATGATTACAATGAACACTCCT  
CTCCATTAAATTAATTATTTACATTGATGAAATAGCAAAATGTTAATGACTAAATACTGTCTTGGTTTTTTTCGT  
TCCAGGTCAGTCAATATTAACCTCTTATAAATTTCTTTTTTTCTTTATGTGTGTGTGTGTGTATTTTTTTTT  
TTTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATAGATGAATTCTACAGTAGTGAAGTCTGAG  
ATTTTACTGCACCGGTACCTGAGTAGTGTACATTGTACCAATATGTGGTTTTTTATACCTTGCCCCCTCTTA  
CCCTCCCCACTTTGAGTCTCTAGTGTCCATTATGTCACTCTGTATACCTTTTGTACCCATAAGTTAGCTCTCAC  
TTATAAGTGAGAACACACAGTATTTGGTTTTCCATTCTGAGTTGCTTCACITAGAATAATATCCTCCAGCTCCA  
TCCAAATTGCTGCAAAAAAAAAAAAAACCACAAACATTATTTGTTCTTTTTTATTGCTAAGTCATATTCCATG  
GTGTAGAGATACCACATTTTATTTATCCACTACTGGTTGATGGGTTGGTCCACATCTTTGCAATTGTGACTTG  
TACTGCCATCAAGTGTCTTTCTGGTATAATGACTTCTTTTCTTTGGGTAGATACCCAGGAGTGGGATTGCTAGA  
TCAATGGTCTTAAACATTTCTCTCTGGATCTATTTCTGGAAATTTTAGGCTCCAGTTTTTGTGTGTGTGTGTTA  
ATAAATGCAATGGAATGTAATGATCATCACTTTTCATTATGCTTTAAATCTGGTAAATGGAGGCTAGAACACT  
CCTGTAAGGCAAGAATATTCTCTCTGTTGGAACFCAATACACAGAAGTGGGTAAATCTCAATCTTAATCTTTGA  
TTCAGGACACAACATGGCTCTCTTTTACTTGCTTCTTTAATGTTTTTTAATAATGTGGTAAGCATTCTGAAT  
CTCCTATCCAATACAAAACCTAGGACAATACAGACAGTAACCTCTATGGTTACAATGAACACTCCTCTCCACTTA  
AATTAATTATTTACTGATGAAATTGAAATAGCAAAATTTTAAATGACTAAATACTGTCTTTGATTTTTTGTTC  
AGGTCTGTCAATATTAACCTCTTATAATTTTCTTTTTTTCTTTATGTGTGTGTGTGTGTATATATATATAT  
ATTTAATTTCAATGGCTTTTGGGGTACAAATGGCTTTTGGTCATATATATAGAGTTCTACAGTAGTGAAGTCTGAG  
ATTTTACTACACCTTCCACTTATGTGGTCCCACACCACCCGCCCTCCCTGCCGCCCTCTGCCACCCCTAGGCCA  
AGGTAATAATCATCCTGAATCCTGGGTTTATCTCTCACTTGCTTTCTTTTCATATAATTTTGCAAAAGAATCTGA  
TCTAAATGTGTTTTTTCAGAGTATATATTTATATTTAGCTGTTCTTAGAGAAAATTTATTATTTTGCATGTAATC  
TTATGGAACATTCTCATTTAATACCATGGTAAGATTGAGCCCTTGCCAGGGGATAGTTTCATTTAGTTTGTGTTAC  
TGGATAGAGCTCATCATGTGACTATACCTCAGTTAGTTTATCAGTTCTCCCATCCATGGTGACTAGGTTGCCTCT  
CAGCCTCTCAACAACACTGTTTCTCAGTGTCTTGTAGAAAGTATATGTGGGTGTTTTCTCCTTACACAGAGTTG  
AAAGGTGACGACAACAACGTTGGCACTACCAATCCCCACCCCTCCAGAGGGGTAACCAAGTGTTACCAAGTTTGCTG  
TGTTTCTGTCTACACCTCGCCTTATTCACCTCCATTGTATCTGAAAAACGTGTTGCATGGTTTTCTTTCTATAG  
AAGTGGTAAATGCTATTGTGTCTGTACATTATTGATTACTTTTTTTCATTTAACAGTAGGGAGATGCCTGGGA  
GTACACAGAGAACTGCCCTCATTGTTTTCAACTTCTGCACTGTATGTCTGTGAGTTTAGCCATTCTGCTGTAAAT  
GGAAAATTTACAGTATTCTAATCTTTTGATATTACAAACAGTTCTGTGCGATCATCGTCATACACAACCCCTTG  
CACAATGCATGAGTGTCTCAGGGTAGGTACCAAGAAGTGAAATTCCTGGGTATAGGGCGTGAGTCCGACATT  
TTTCTCCATTCTGCCCTGTTGCCCTCCAGAGTGGGTGTCCAGCTTTGCATACCTAAGTATGAGAGTATCTGTGT  
TCATATCCTCTACGACGCTCCATATATGAAACTTAAGTTTCTGCTAGTTGCCATCTTTGATCTATCATGTATGCA  
GTGACCTACTAAGACTGTAATTGGTACAGTAGATTCTGTCTATCTGTGTGTGAATTTAGCATTATGGGCTTAAT  
GCTGACAAGGCCCCAGGGTCCAAGACATATAATCATGTATAATTTTGCAAGGTATAATTTTTTAAATTGCTTT  
TGTCATGTGTCTGTGGTGATGCCCAACCCAGTGCTCTGCACCCAGGTCACACTGTGGCTTTGTCTCTGTCTTAT  
GCCTGCATTGCAGCAACTGTCTGAAGAGACCAAAATTATGCAGATTTAGGTAAGTCCATGGCTAATGTTATTAT  
ATTATGTGCTATTGTAATGGATGGGGCTGTGGAGTGTATGAATTTATAAACTCACTGGTCTGTGAATTAATAATCA  
AACACTATAGAAAAAGGCCATGTAGAAGATAAAAGTTCTCTATAATCCCGACCCCTAAGATAACTACTAATGA  
CAACTTCATTTATATTCCTTCAGACATTTTCTGGCTGTGGATGTACTAAAATGTATCCTATTATTCTCTGCCCTA  
AAATGGAATCATACAAGGTGTACTGTTATTTTATGGCTCTATAACATGTATATTGTACGTGTGGTATGGTCA  
TTTTAACCATTTTTCTAGTGTATGGCTTTGAGGTTATTTGCAGTTTCTAGCCATCTCAAAGTGTGCTGCGGGGAT  
CTCTTTTGCATCCCTCTGGGTGCAGAGCTGAGGCACCCAGAGGAGTGTCCAGAGGAGGCAGCATCTGTAGGTGT  
CTTACCTGCTCTGGCTCTTGGCACATCTGGTTGGTGACACTGTTTTGTGAGATGGGTTGAAAGCACGTGCTGCC  
AAAATAGAATAATGTTGGTCTCTCCTCATGTGCCGTGGAACTGGGGTAAACTGCGTAGTGGCTGCAGCTGCC  
GTCCATACCGGAATCGAGTATAACACGGTGCCTGGCTTAGCACAAAACAGTAGTGGGTCTGCAGGCCCCAGAGT





3570/6881  
**FIGURE 3292**

MFGSSYSLLSSHSELSCLCPPSPPLVPSVRSSHFLLGSPFSVAGCLPAWRWTFHVTGISMYILVWSVSTLNFV  
SSSISLYRQSSQTHLKRLFLRILNLPKGSPMDGFLEVYKCSEIVFFCGKHNFHLLVRAQKRS

3571/6881  
**FIGURE 3293**

AGCCCCCATCCCCGCCCTCTCCCGCCCCTCCCTTGTCCCCGCCCTTCCCGCCCCAACTCAGGTTCTGCCCC  
ACCCCGCCCCAATTCACGTCTGCTCCGCCCCGACGTAGGCCCCGCCCTGGCCCCCGGGCCCCGCCCGCTCTGA  
CGCAGGCCCCGCCCTCTCCGCCCCGCCCGGCTCGGGCGGCCGGAGGACCCGGAGCTAAGCGCCCCGAACCCG  
CGGCGGCGGTGGGGACGATGTGGTTCTTTGCCCGGGACCCGGTCCGGGACTTCCGTTTCAGCTCATCCCGGAGC  
CCCCAGAGGGCGGCCTGCCGGGCCCTGGGCCCTGCACCGCGGCCGCAAGAAGGCCACAGGCAGCCCCGTGTCCA  
TCTTCGTCTATGATGTGAAGCCTGGCGCGGAAGAGCAGACCCAGGTGGCCAAAGCTGCCTTCAAGCGCTTCAAAA  
CTCTACGGCACCCCAACATCCTGGCTTACATCGATGGACTGGAGACAGAAAAATGCCTCCACGTCTGTACAGAGG  
CTGTGACCCCGTTGGGAATATACCTCAAGGCGAGAGTGGAGGCTGGTGGCCTGAAGGAGCTGGAGATCTCTGGG  
GGCTACACCAGATCGTGAAAGCCCTCAGCTTCCTGGTCAACGACTGCAGCCTCATCCACAACATGTCTGCATGG  
CCGCCGTGTTTCGTGGACCGAGCTGGCGAGTGAAGCTTGGGGCCCTGGACTACATGTATTTCGGCCAGGGCAACG  
GTGGGGGACCTCCCCGCAAGGGGATCCCCGAGCTTGAGCAGTATGACCCCCCGAGTTGGCTGACAGCAGTGGCA  
GAGTGGTCAGAGAGAAGTGGTCAGCAGACATGTGGCGCTTGGGCTGCCTCATTGGGAAGTCTTCAATGGGCCCC  
TACCTCGGGCAGCAGCCCTACGCAACCCCTGGGAAGATCCCCAAAACGCTGGTGGCCCATTAATGTGAGCTGGTGG  
GAGCAAACCCCAAGGTGCGTCCCAACCCAGCCCGCTTCCTGCAGAACTGCCGGGCACCTGGTGGCTTCATGAGCA  
ACCGCTTTGTAGAAACCAACCTCTTCTGGAGGAGATTTCAGATCAAAGAGCCAGCCGAGAAGCAAAAATTCTTCC  
AGGAGCTGAGCAAGAGCCTGGACGCATTCCCTGAGGATTTCTGTCGGCACAAGGTGCTGCCCCAGCTGCTGACCG  
CCTTCGAGTTCGGCAATGTCTGGGGCCGTTGTCTCAGCCCCCTCTTCAAGGTGGGCAAGTTCTGAGCGCTGAGG  
AGTATCAGCAGAAGATCATCCCTGTGGTGGTCAAGATGTTCTCATCCACTGACCGGGCCATGCGCATCCGCCTCC  
TGCAGCAGATGGAGCAGTTTCATCCAGTACCTTGACGAGCCAACTAGTCAACACCCAGATCTTCCCCACGTCTGTAC  
ATGGCTTCCTGGACACCAACCCTGCCATCCGGGAGCAGACGGTCAAGTCCATGTGTCTCTGGCCCCAAAGCTGA  
ACGAGGCCAACCTCAATGTGGAGCTGATGAAGCACTTTGCACGGCTACAGGCCAAGGATGAACAGGGCCCCATCC  
GCTGCAACACCACAGTCTGCCTGGGCAAAATCGGCTCCTACCTCAGTGCTAGCACCAGACACAGGGTCTTTACCT  
CTGCCTTCAGCCGAGCCACTAGGGACCCGTTTGACACCGTCCCGGGTTCGCGGTCTCTGGGCTTTGCTGCCACCC  
ACAACCTCTACTCAATGAACGACTGTGCCCAGAAGATCCTGCCTGTGCTCTGCGGTCTCACTGTAGATCCTGAGA  
AATCCGTGCGAGACCAGGCCCTTCAAGGCCATTTCGGAGCTTCCTGTCCAAATTGGAGTCTGTGTGCGGAGGACCCGA  
CCCAGCTGGAGGAAGTGGAGAAGGATGTCCATGCAGCCTCCAGCCCTGGCATGGGAGGAGCCGCAGCTAGCTGGG  
CAGGCTGGGCCGTGACCGGGTCTCCTCACTCACCTCCAAGCTGATCCGTTCCGACCCAACCACTGCCCAACAG  
AAACCAACATTCCCCAAAGACCCACGCCTGAAGGCCACTGGGAGACGCAGGAGGAGGACAAGGACACAGCAGAGG  
ACAGCAGCACTGCTGACAGATGGGACGACGAAGACTGGGGCAGCCTGGAGCAGGAGGCCGAGTCTGTGCTGGCCC  
AGCAGGACGACTGGAGCACCGGGGGCCAAGTGAGCCGTGCTAGTCAGGTCAGCAACTCCGACCACAAATCCTCCA  
AATCCCCAGAGTCCGACTGGAGCAGCTGGGAAGCTGAGGGCTCCTGGGAACAGGGCTGGCAGGAGCCAAGCTCCC  
AGGAGCCACCTCCTGACGGTACACGGCTGGCCAGCGAGTATAACTGGGGTGGCCAGAGTCCAGCGACAAGGGCG  
ACCCCTTCGCTACCTGTCTGCACGTCCCAGCACCCAGCCGAGGCCAGACTCTTGGGGTGGAGACAACCTGGGAGG  
GCCTCGAGACTGACAGTCCGACAGGTCAAGGCTGAGCTGGCCCCGAAGAAGCGCGAGGAGCGCGCGGGGAGATGG  
AGGCCAAACGCGCCGAGAGGAAGGTGGCCAAGGGCCCCATGAAGCTGGGAGCCCGGAAGCTGGACTGAACCGTGG  
CGGTGGCCCTTCCCGGCTGCGGAGAGCCCGCCCCACAGATGTATTATTGTACAAACCATGTGAGCCCGGCCGGC  
CCAGCCAGGCCATCTCACGTGTACATAATCAGAGCCACAATAAATTCTATTTAC

3572/6881  
**FIGURE 3294**

CAGAGACTGATGAGTGCCGACTGAACCAGAACATCTGTGGCCACGGAGAGTGCGTGCCGGGCCCCCTGACTACT  
CCTGCCACTGCAACCCCGGCTACCGGTCACATCCCCAGCACCGCTACTGCGTGGATGTGAACGAGTGCGAGGCAG  
AGCCCTGTGGCCCGGGGAGGGGCATCTGCATGAACACGGCGGCTCCTACAATTGCCACTGCAACCGCGGCTACC  
GCCTGCACGTGGGCGCCGGGGGCGCTCGTGCGTGGACCTGAACGAATGCGCCAAGCCCCACCTGTGCGGCGACG  
GCGGCTTCTGCATCAACTTTCCCGTCACTACAAGTGCAACTGTACCCCGGCTACCGGCTCAAAGCCTCCCGGC  
CTCCTGTGTGCGAAGACATCGACGAGTGCCGGGACCCAAGCTCTTGCCCGGATGGCAAATGCGAGAACAGCCCG  
GGAGCTTCAAGTGATCGCCTGTGAGCCTGGCTACCGCAGCCAGGGGGGCGGGGCTGTGCGGACGTGAACGAGT  
GCGCCGAGGGCAGCCTCTGCTCGCCTGGCTGGTGCGAGAACCTCCCGGGCTCCTTCCGCTGCACCTGTGCCAGG  
GCTACGCGCCCGCGCCCGACGGCCGAGTTGCTTGATGTGGACGAGTGTGAGGCTGGGGACGTGTGTGACAATG  
GCATCTGCAGCAACACGCCAGGATCTTTCCAGTGTGAGTGCCTCTCTGGCTACCATCTGTCCAGGGACCGGAGCC  
ACTGCGAGGACATTGATGAGTGTGACTTCCCTGCAGCCTGCATTGGGGGTGACTGCATCAATACCAATGGCTCCT  
ACAGATGTCTTTGCCCCAGGGGCATCGGCTGGTGGGTGGCAGGAAATGCCAAGACATAGATGAGTGCAGCCAGG  
ACCCGAGCCTGTGCCTTCCCATGGGGCCTGCAAGAACCTTCAGGGCTCCTATGTGTGTGTCTGCGATAGGGGCT  
TCACTCCACCCAGGACCAGCACGGTTGTGAGGAGTGGAGCAGCCCCACCACAAGAAGGAGTGCTACCTGAACT  
TCGATGACACAGTGTCTGCGACAGCGTATTGGCCACCAACGTGACCAGCAGGAGTGCTGCTGCTCTCTGGGGG  
CCGGCTGGGGCGACCACTGCGAAATCTACCCCTGCCAGTCTACAGCTCAGCCGAGTTCCACAGCCTCTGCCCAG  
ACGGAAAGGGCTACACCCAGGACAACAACATCGTCAACTACGGCATCCAGCCACCGTGACATCGACGAGTGCA  
TGTGTTCGGGTCGGAGATTTGCAAGGAGGGCAAGTCCGTGAACACGCAGCCTGGCTACGAGTGCTACTGCAAGC  
AGGGCTTCTACTACGACGGGAACCTGCTGGAATGCGTGGACGTGGACGAGTGCTGGACGAGTCCAAGTCCCGGA  
ACGGAGTGTGTGAGAACACGCGCGGCGGCTACCGCTGTGCCTGCACGCCCCCTGCCGAGTACAGTCCCGCGCAGC  
GCCAGTGCCTGAGCCCGGAAGAGATGGACGTGGACGAGTGCCAGGACCCGGCAGCCTGCCGCCCTGGCCGCTGCG  
TCAACCTGCCGGGCTCCTACCGCTGCGAGTGTGCCCCGCCCTGGGTGCCCGGGCCCTCCGGCCGCGATTGCCAGC  
TCCCCGAGAGCCCCGCGGAGCGTGCCCCGAGCGGCGCGACGTGTGCTGGAGCCAGCGCGGAGAGGACGGCATGT  
GCGCTGGCCCCCTGGCCGGGCTGCCCTACCTTCGACGACTGCTGCTGCCGCCAGGGCCGCGGCTGGGGCGCCC  
AATGCCGACCGTGCCCGCGCGCGGCGGGGTCCCATTGCCGACATCGCAGAGCGAGAGCAATTCTTCTGGG  
ACACAAGCCCCCTGCTGTTGGGGAAGCCCCAAGAGATGAGGACAGTTCAGAGGAGGATTAGACGAGTGTGCT  
GCGTGAGTGGCCGCTGCGTGCCGCGGCGGGGCGGCGCGCTGTGCGAGTGTCCCGGCGGCTTCCAGCTCGACGCT  
CCCGCGCCCGCTGCGTGGATATCGACGAGTGCCGAGAGCTGAACCAGCGCGGGCTGCTGTGCAAGAGCGAGCGCT  
GCGTGAACACCAGCGGCTCCTTCCGCTGCGTCTGCAAAGCCGGCTTCGCGCGCAGCCGCCGACGGGGCTGCG  
TTCCCCAGCGCCGCGCTGACGCGCGGACGCGCCCTCGGCCAGACCTCGGTGATCACTGAGGGATTTCGCG  
AGCTCGGCCTCACTTCTGCCCGACTTGTGGCTCGGACCCAGGGACCTTCAGGGCCCGCAGACCCTCCCGGCGCC  
TTGAGACCCGAGGCGCCCTACCGGCCCCCTCCCGGTTAGCGGGCGGTTGTAAGGTCTCCGGCGGGCGCTGCC  
TGCCCTTCTCCAGAGGGTGTTCCTAGAACTGATAAATCAGATCGTGCTCTTTACCCCTGGCTTTCG

3573/6881  
**FIGURE 3295**

CTCCCAAAGCAGAATTGCAGCTGCCGCCGCCACCTCCAGGCCACTATGCGCCTGGGGCTGCCAGGAGCTT  
CAGGCCAAGTTGGCAGAGATCGGAGCTCCGATCCAGGGTAATCGCGAGGAGCTGGTGGAGCGGCTGCAGAGCTAC  
ACCCGCCAGACTGGCATCGTGCTGAATCGGCCGGTTTTGAGAGGGGAAGATGGGGACAAAGCCGCTCCACCTCCC  
ATGTCGGCACAGCTCCCTGGAATTCCCATGCCACCACCACCTTTGGGACTCCCCCTCTGCAGCCTCCTCCGCCA  
CCCCACCACCTCCACCAGGCCTTGGCCTTGGCTTTCTATGGCCACCACCAAATTTGGGGCCCCCGCTCCT  
CTCCGTGTGGGTGAGCCAGTGGCACTGTCAGAGGAGGAGCGGCTGAAGTTGGCTCAGCAGCAGGCGGCATTGCTG  
ATGCAGCAGGAGGAGCGTGCCAAGCAGCAGGGAGATCATTCGCTGAAGGAACATGAGCTCTTGGAGCAGCAGAAG  
CGGGCAGCTGTGTTACTGGAGCAGGAACGACAGCAGGAGATTGCCAAGATGGGCACCCAGTCCCTCGGCCCCCA  
CAAGACATGGGCCAGATTGGTGTGCGCACTCCTCTGGGTCTCGAGTAGCTGCTCCAGTGGGGCCAGTGGGGCCC  
ACTCCTACAGTTTTGCCCCATGGGAGCCCTGTTCGCCGGCCTCGTGGTCCCCACC GCCCCCTGGAGATGAGAAC  
AGAGAGATGGATGACCCCTCTGTGGGCCCAAGATCCCCCAGGCTTTGGAGAAGATCCTGCAGCTGAAGGAGAGC  
CGCCAGGAAGAGATGAATTCTCAGCAGGAGGAAGAGGAATGGAACAGATGCTCGCTCGTCCCTGGGCCAGTCA  
GCGTCAGAGACTGAGGAGGACACAGTGTCCGTATCTAAAAAGGAGAAAAACCGGAAGCGTAGGAACCGAAAGAAG  
AAGAAAAAGCCCCAGCGGGTGCAGGGGTGTCTCTGAGAGCTCTGGGGACCGGGAGAAAGACTCAACCCGGTCC  
CGTGGCTCTGATTCCCCAGCAGCTGATGTTGAGATTGAGTATGTGACTGAAGAACCTGAAATTTACGAGCCCAAC  
TTTATCTTCTTAAGAGGATCTTTGAGGCTTTTAAGCTCACTGATGATGTGAAGAAGGAGAAAGAGAAAGAGCCA  
GAGAACTTGACAACTGGAGAACTCTGCAGCCCCCAAGAAGAAGGGATTTGAAGAGGAGCACAAGGACAGTGAT  
GATGACAGCAGTGATGACGAGCAGGAAAAGAAGCCAGAAGCCCCCAAGCTGTCCAAGAAGAAGTTGCCCGGAATG  
AACCGCTTCACTGTGGCTGAACCAAGCAGCTGGTGGCTCGGCCCGATGTCTGTGAGATGCACGATGTGACAGCG  
CAGGACCCTAAGCTCTTGGTTACCTCAAGGCCACTCGGAACCTCTGTGCCTGTGCCACGCCACTGGTGTTTAAG  
CGCAAATACCTGCAGGGCAAACGGGGCATTGAGAAGCCCCCTTCGAGCTGCCAGACTTCATCAAACGCACAGGC  
ATCCAGGAGATGCGAGAGGCCCTGCAGGAGAAGGAAGAAGACAGAAGACCATGAAGTCAAAAATGCGAGAGAAAGTT  
CGGCCTAAGATGGGCAAATGACATCGACTACCAGAACTGCATGATGCCTTCTTCAAGTGGCAGACCAAGCCA  
AAGCTGACCATCCATGGGGACCTGTACTATGAGGGGAAGGAGTTCGAGACACGACTGAAGGAGAAGAAGCCAGGA  
GATCTGTCTGATGAGCTAAGGATTTCTTGGGGATGCCAGTAGGACCAAAATGCCACAAGGTCCCTCCCCCATGG  
CTGATTGCCATGCAGCGATATGGACCACCCCATCGTATCCCAACCTGAAAATCCCTGGGCTGAACCTGCCCCATC  
CCTGAGAGCTGTTCCTTTGGGTACCATGCTGGTGGCTGGGGCAAACCTCCAGTGGATGAGACTGGGAAACCGCTC  
TATGGGGACGTGTTTGAACCAATGCTGCTGAATTTAGACCAAGACTGAGGAAGAAGAGATTGATCGGACCCCT  
TGGGGGGAACCTGAACCATCTGATGAAGAATCCTCAGAAGAAGAGGAAGAGGAAGAAAGTGAAGACAAACCA  
GATGAGACAGGCTTTATTACCCCTGCAGACAGTGCCTTATCACTCCTGGAGGCTTTTCATCAGTGCCTGTCTGGA  
ATGGAGACCCCTGAACCTCATTGAGCTGAGGAAGAAGAAGATTGAGGAGGCGATGGACGGAAGTGAGACACCTCAG  
CTCTTCACTGTGTTGCCAGAGAAGAGAACAGCCACTGTTGGAGGGGCCATGATGGGATCAACCCACATTTATGAC  
ATGTCCACGGTTATGAGCCGGAAGGGCCCGGCTCCTGAGCTGCAAGGTGTGGAAGTGGCGCTGGCGCCTGAAGAG  
TTGGAGCTGGATCCTATGGCCATGACCCAGAAGTATGAGGAGCATGTGCGGGAGCAGCAGGCTCAAGTAGAGAAG  
GAGGACTTCAGTGACATGGTGGCTGAGCAGCTGCCAAACAGAAGCAAAAAAACGGAAAGCTCAGCCCCAGGAC  
AGCCGTGGGGGCAGCAAGAAATATAAGGAGTTCAAGTTTTAGGTCCCCTCACACTAGCCCTTTTTTTGGCCCTAC  
GTCTGGATGCCTGGGCTTCACACAAGAACCACCTCTCCCGAGTTCCCAAGGACTTGTCATTTTCATGTTCTTATT  
TTAGACCTGTTTTGTAAATAAAGCTGTTTTCCCAAGGAAAGAGATGAAAAAAAAAAAAAAAAAAAA

3574/6881  
**FIGURE 3296**

MAPGAAQELQAKLAEIGAPIQGNREELVERLQSYTRQTGIVLNRPVLRGEDGDKAAPPPMSAQLPGIPMPPPPPLG  
LPPLQPPPPPPPPPPGLGLGFPMHPPNLGPPPLRVGEPVALSEERLKLAAQQQAALLMQQEERAKQQGDHSLK  
EHELLEQQKRAAVLLEQERQQEIAKMGTVPVRPPQDMGQIGVRTPLGPRVAAPVGPVGPPTPTVLPMGAPVPRPRG  
PPPPPGDENREMDPSVGPkipQALEKILQLKESRQEEMNSQQEEEEMETDARSSLGQSASETEEDTVSVSKKEK  
NRKRRNRKKKKKQQRVRGVSSSESSGDREKDSTRSRGSDSPAADVEIEYVTEPEIYEPNFIFFKRIFEAFKLTDD  
VKKEKEKEPEKLDKLENSAAPKKKGFEHHKSDDDSSDDEQEKKEAPKLSKKKLRRMNRTVAELKQLVARPD  
VVEMHDVTAQDPKLLVHLKATRNSVPVPRHWCfKRKYLGKRGIEKPPFELPDFIKRTGIQEMREALQEKEEQKT  
MKSKMREKVRPKMGKIDIDYQKLHDAFFKWQTKPKLTIHGDLYYEGKEFETRLKEKKPGDLSDELRLSLGMPVGP  
NAHKVPPPWLIAMQRYGPPPSYPNLKIPGLNSPIPESCSFGYHAGGWGKPPVDETGKPLYGDVFGTNAAEFQTKT  
EEEEIDRTPWGELEPSDEESSEEEEEESDEDKPDETGFI TPADSGLITPGGFSSVPAGMETPELIELRKKKIEE  
AMDGSETPQLFTVLPEKRTATVGGAMMGSTHIYDMSTVMSRKGPAPELQGEVALAPEELELDPAMTQKYEEHV  
REQQAQVEKEDFSDMVAEHAAKQKQKKRKAQPQDSRGGSKKYKEFKF

3575/6881  
**FIGURE 3297**

GGAGTTTCGCCGCCGCGAGTCTTCGCCACCAATGCCGCCCTACACCGTGGTCTATTTCCCAGTTCGAGGCCGCTGCG  
CGGCCCTGCGCATGCTGCTGGCAGATCAGGGCCAGAGCTGGAAGGAGGAGGTGGTGACCGTGAGACGTGGCAGG  
AGGGCTCACTCAAAGCCTCCTGCCTATACGGGCAGCTCCCCAAGTTCAGGACGGAGACCTCACCCCTGTACCAGT  
CCAATACCATCCTGCGTCACCTGGGCCGCACCCCTTGGGCTCTATGGGAAGGACCAGCAGGAGGCAGCCCTGGTGG  
ACATGGTGAATGACGGCGTGGAGGACCTCCGCTGCAAATACATCTCCCTCATCTACACCAACTATGAGGCGGGCA  
AGGATGACTATGTGAAGGCACTGCCCGGGCAACTGAAGCCTTTTGAGACCGTGCTGTCCCAGAACCAGGGAGGCA  
AGACCTTCATTGTGGGAGACCAGATCTCCTTCGCTGACTACAACCTGCTGGACTTGCTGCTGATCCATGAGGTCC  
TAGCCCTGGCTGCCTGGATGCGTTCCCCCTGCTCTCAGCATATGTGGGGCGCCTCAGCGCCCGGCCAAGCTCA  
AGGCCTTCCTGGCCTCCCCTGAGTACGTGAACCTCCCCATCAATGGCAACGGGAAACAGTGAGGGTGGGGGGAC  
TCTGAGCGGGAGGCAGAGTTTGCCTTCCTTCTCCAGGACCAATAAAATTTCTAAGAGAGCT

3576/6881  
**FIGURE 3298**

MPPYTVVYFPVRGRCAALRMLLADQGQSWKEEVTVETWQEGSLKASCLYGQLPKFQDGDLTLYQSNTILRHLGR  
TLGLYGKDQQEAALVDMVNDGVEDLRCKYISLIYTNYEAGKDDYVKALPGQLKPFETLLSQNQGGKTFIVGDQIS  
FADYNLLDILLIHEVLAPGCLDAFPLLSAYVGRLSARPKLKAFLASPEYVNLPINGNGKQ

3577/6881  
**FIGURE 3299**

ATCGCGCCAGTTCCTCAGCCTCAGTGCTATGAAGGTGACAGCGTGAGGTGACCCATCTGGCCCGCCGCGATGCTG  
GCAACACGGCGGCTGCTCGGCTGGTCGCTTCCCGCGCGGGTATCTGTGCGTTTCAGCGGCGACACGACAGCACCC  
AAGAAAACCTCATTGCTCGCTGAAGGATGAAGACCGGATTTTACCAACCTGTACGGCCGCCATGACTGGAGG  
CTGAAAGGTTCCCTGAGTCGAGGTGACTGGTACAAGACAAAGGAGATCCTGCTGAAGGGGGCCGACTGGATCCTG  
GGCGAGATCAAGACATCGGGTTTGAGGGGGCCGTGGAGGCGCTGGCTTCCCCACTGGCCTCAAGTGGAGCTTCATG  
AATAAGCCCTCAGATGGCAGGCCCAAGTATCTGGTGGTGAACGCAGACGAGGGGGAGCCGGGCACCTGCAAGGAC  
CGGGAGATCTTACGCCATGATCCTCACAAGCTGCTGGAAGGCTGCCTGGTGGGGGGCCGGGCCATGGGCGCCCGC  
GCTGCCTATATCTACATCCGAGGGGAATTCTACAATGAGGCCTCCAATCTGCAGGTGGCCATCCGAGAGGCCTAT  
GAGGCAGGTCTGATTGGCAAGAATGCTTGTGGCTCTGGCTATGATTTTGACGTGTTGTGGTGC CGGGGCTGGG  
GCCTACATCTGTGGAGAGGAGACAGCGCTCATCGAGTCCATTGAGGGCAAGCAGGGCAAGCCCCGCCTGAAGCCC  
CCCTTCCCGCAGACGTGGGAGTGTTTGGCTGCCCCACAACCTGTGGCCAACGTGGAGACAGTGGCAGTGTCCCCC  
ACAATCTGCCCGCTGGAGGTACCTGGTTTGTGGCTTTGGCAGAGAACGCAACTCAGGCACCAAACTATTCAAC  
ATCTCTGGCCATGTCAACCACCTTGCACTGTGGAGGAGGAGATGTCTGTGCCCTTGAAAGAAGTATTGAGAAG  
CATGCTGGGGGTGTACGGGCGGCTGGGACAACCTCCTTGCTGTGATCCCTGGCGGCTCGTCTACCCCACTGATC  
CCCAAGTCTGTGTGTGAGACGGTGTGATGGACTTCGATGCGCTGGTGCAGGCACAGACAGGCCTGGGCACAGCT  
GCGGTGATCGTCATGGACCGCTCGACGGACATCGTGAAAGCCATCGCCCGCCTCATTGAGTTCTATAAGCACGAG  
AGCTGTGGCCAGTGTACCCCATGCCGTGAGGGTGTGGACTGGATGAACAAGGTGATGGCACGTTTCGTGAGGGGG  
GATGCCCGGCCGGCCGAGATCGACTCCCTGTGGGAGATCAGCAAGCAGATAGAAGGCCATACGATTGTGCTCTG  
GGTGACGGGGCCGCTGGCCTGTGCAGGGTCTGATCCGCCACTTTCGGCCGGAGCTCGAGGAGCGGATGCAGCGG  
TTTGCCCAGCAGCATCAGGCCCGGCAGGCTGCCTCTTAGCCCCACCACCTGGCCTGCTGTCCTGCGTCTATCCAT  
GTGGAATGCTGGACAATAAAGCGAGTGCTGCCACCCCTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



3578/6881  
**FIGURE 3300**

MLATRLLGWSLPARVSVRFSGDTTAPKKTSFGSLKDEDRIFTNLYGRHDWRLKGSLSRGDWYKTKEILLKGPDW  
ILGEIKTSGLRGRGGAGFPTGLKWSFMNKPSDGRPKYLVVNADEGEPTCKDREILRHDPHKLLEGCLVGGRAMG  
ARAAIYIIRGEFYNEASNQVAIREAYEAGLIGNACGSGYDFDVFVVRGAGAYICGEETALIESIEGKQKPR  
KPPFPADVGVFGCPTTVANVETVAVSPTICRRGGTWFAFGGRERNSTKLFNISGHVNHPCVVEEMSVPLKELI  
EKHAGGVTTGGWDLAVIPGGSSTPLIPKSVCEVLMDFDALVQAQTGLGTAIVMDRSTDIVKAIARLIEFYK  
HESCGQCTPCREGVDWMNKVMARFVRGDARPAEIDSLWEISKQIEGHTICALGDGAAPVQGLIRHFRPELEERM  
QRFAQQHQAQAAS

3579/6881  
**FIGURE 3301**

GGCACGAGGGCGCGCAAGGCACCGGTGGCAGCGGCGACGGCAGCTGCGACAGCAACCCCTGCTGGGCCGAAACTG  
GGCAGAGCGGAGCAGACGTCTGAAGCAGCGCGAGTGAGGCGCGAGGGTAGCGCCCGCGCCCGGGAAGACCCCTCG  
GGCGAACC GG CAGCC CAGCCCGGGTCCCGTTCCCAAGGCCCGCCTCTAGGGCTTGGGACTAATCGGATTG  
AGAGCGCGCCGGCCCGGGCCGGAAC TCGCCAATTGCGGAGGGCGGTGGCCACCGCCCAATCCGGAGCAGACAGG  
TGCGAGGTCCGGAAGGCGGAGGCCAATCGGCGGCGGTTGCGACCTGCTGGGGCAGGTCTCGGCCAATAAGGAGGC  
TCGAGTGACATCTTCGCGCACCAATCGGGAGTGAGGGAGCATTCTGCCCCGCTCGCCCTTCCGGCCAGACCTCTA  
TTTACCAGGGGCGTG CAGCCCGCTTGCCAATCAGAGCGCGGCTGAGCGGCCCGCAGCCAACCCCGAGGAGCGG  
CCGGCTGGCGTCCGCCGCGCC CAGGAGTTGGGGATGTCCTACAAACCCATCGCCCTGCTCCCAGCAGCACCCCT  
GGCTCCAGCACCCCTGGGCCGGGCACCCCGGTCCCTACAGGAAGCGTCCCGTCGCCGTCCGGCTCAGTGCCAGGA  
GCCGGCGCTCCTTT CAGACCGCTGTTTAACGACTTTGGACCGCTTCCATGGGCTACGTGCAGGCGATGAAGCCA  
CCCGGCGCC CAGGGCTCCCAGAGCACCTACACGGACCTGCTGT CAGTCATAGAGGAGATGGGCAAAGAGATCCGG  
CCTACCTATGCTGGCAGCAAGAGCGCCATGGAGCGCCTGAAGAGAGGTATCATCCATGCCCGGGCCCTAGTCAGA  
GAGTGCTTGGCAGAGACAGAGCGGAACGCGCCGACGTAACAGGAAGCGCCTCGGCCTCAGCGTCTGGACCTATCC  
GGCCACTGCAGAGCACCCGCTTCTCCCTGGCCTTCATCCCGAGTTGCACTAACCATCCTGGGCTTCCTGTCTGT  
GTCCCTTGTTGGGTCCCTCCAGGAACCAAGGAGTGGCCCTCCAGGTGGCAGCACTAAGGACACCCCCCACAAAC  
AAGAGTTAGCAGCGAGGTCCCATGAGTCCCACCCATGACCTGCCGACAGTGTTGCCACCGGAAC TTTGTGGC  
CCCTACCGCTCAGCCCTTCCAGCACTTCTCCACTTTGTCCCGAGCCTCCTTCTCCCCCAGCAGGGGCACAGGC  
CTGGCACCTCCCTGCCTTGTGTCTGAGCCATAGTACTCTTTTATCTGTGTGTCTTTTGCTAAATATGCCCTTT  
TTATATTAATAAAAGATGATTTGGAGTTGTGCTCTCAAAAAAAAAAAAAAAAAAAAAA

3580/6881  
**FIGURE 3302**

MSYKPIAPAPSSTPGSSTPGPGTPVPTGSPVSPSGSVPGAGAPFRPLFNDFGPPSMGYVQAMKPPGAQGSQSTYT  
DLLSVIEEMGKEIRPTYAGSKSAMERLKRGI IHARALVRECLAETERNART

**FIGURE 3303A**

[illegible]

3582/6881  
**FIGURE 3303B**

CCAGACCTACATCGTGGGCCGTGCCGTGCGGAAGCTACAGGCGCAGTGCCAGTTCCTGTCAGACGGCTATGTGGC  
CCACCTGGGCCAGCTGGAAGCGGGCTCGCACTCGCATGCCTCCTCGGGACCCCCGAGAGCTGCCTTGGGCAAGAG  
CAGCTATGGTGTGGCTGCCCCGTGGACTTCCTGCGCAAACAGAGCCAGCTGCTTCGCTCGAGGGGCCCCAGCCA  
GGCGGAGCGTGAGGGCCCGGGAACACCACCCACCACCCTGGCACGGGGCAAAGCACGGAGCATCAGCCTGAAGCT  
GGACAGCGAGGAGTGAGGGCCACACCAGCCTGGACCTGGGTTATTTATTGACACACCCAAGGGGCCCCGAGGGGCT  
GCGTGTGGGAGGCTGGGGACCCAGACTTTTGGCCCCAGCGCTGGCCCCCAGCCCCACACCTATATCTCCGTG  
TGCTCCTCGGTGTTACTTCCCTTTCATATGAGGGGACCCAGCGCCGGGGGAGGGAGGAGGGCGTGGGCATGGGC  
GCAGAGGCTTTTCAGTGIGTATAAATCCATGAAAATAAACGCCACCTGCACCCC

3583/6881  
FIGURE 3304

GCGGCGCCTAGTCCCGGGCTGGCGGGAGTGCAGTTCTGAGTCCCGCCCGGCGTGC GCGGAGCGGGGCGAGCCAGCA  
GCGGAGGCGCGGCGCGCAGCACACCCGGGGACCATCGGCTCCATGTTCCGAGCGAGGAGGTGGCCCTGGTCCAG  
CTCTTTCTGCCCACAGCGGCTGCCTACACCTGCGTGAGTCGGCTGGGCGAGCTGGGCCTCGTGAGATTTCAGAGAC  
CTCAACGCCTCGGTGAGCGCCTTCCAGAGACGCTTTGTGGTTGATGTTTCGGCGCTGTGAGGAGCTGGAGAAGACC  
TTCACCTTCTGTCAGGAGGAGGTGCGGCGGGCTGGGCTGGTCTGCCCCGCCAAAGGGGAGGCTGCCGGCACCC  
CCACCCCGGGACCTGCTGCGCATCCAGGAGGAGACGGAGCGCCTGGCCCAGGAGCTGCGGGATGTGCGGGGCAAC  
CAGCAGGCCCTGCGGGCCAGCTGCACCAGCTGCAGCTCCACGCCGCCGTGCTACGCCAGGGCCATGAACCTCAG  
CTGGCAGCCGCCACACAGATGGGGCTCAGAGAGGACGCCCTGCTCCAGGCCCCGGGGGCGCCAGCAGGAC  
CTGAGGGTCAACTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAGCGCTGCTCTGGAGGGCC  
TGCCGCGGCTTCTCATTTGCCAGCTTCAGGGAGCTGGAGCAGCCGCTGGAGCACCCCGTGACGGGCGAGCCAGCC  
ACGTGGATGACCTTCTCATCTCCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGACTGCTTC  
CACTGCCACGTCTTCCCGTTTCTGTCAGCAGGAGGAGGCCCGCTCGGGGCCCTGCAGCAGCTGCAACAGCAGAGC  
CAGGAGCTGCAGGAGTCTCGGGGAGACAGAGCGGTTCTGAGCCAGGTGCTAGGCCGGGTGCTGCAGCTGCTG  
CCGCCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACCAAGTGCAGCGTGAGCACCACG  
CACAAGTGCTCATTGCCGAGGCCTGGTGCTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGGACAGC  
TCGATGGAGGAGGGAGTGAGTGCCGTGGCTCACCGCATCCCTGCCGGGACATGCCCCCACACTCATCCGCACC  
AACCCTTCACGGCCAGCTTCAGGGCATCGTGGATGCCCTACGGCGTGGGCCGCTACCAGGAGGTCAACCCCGCT  
CCCTACACCATCATCACCTTCCCTTCTGTTTGTGTGATGTTTCGGGGATGTGGGCCACGGGCTGCTCATGTTT  
CTCTTCGCCCTGGCCATGGTCTTGCAGGAAACCGACCGGCTGTGAAGGCCGCGCAGAACGAGATCTGGCAGACT  
TTCTTCAGGGGCCGCTACCTGCTCTGTATGGGCTGTTCTCCATCTACACCGGCTTCATCTACAACGAGTGC  
TTCAGTCGCGCCACCAGCATCTTCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACCAAGTCTGGCTGGAGTGAT  
GCATTCTGGCCAGCACACGATGCTTACCCTGGATCCCAACGTCACCGGTGCTTCTCTGGGACCTACCCCTTT  
GGCATCGATCCTATTTGGAGCCTGGCTGCCAACCCTTGAGCTTCTCAACTCCTTCAAGATGAAGATGTCCGTC  
ATCCTGGGCGTCTGTGCATGGCCTTTGGGGTGGTCTCGGAGTCTTCAACCACGTGCACTTTGGCCAGAGGCAC  
CGGCTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCTGCTGGGACTCTTCGGTTACCTCGTGTTCCTAGTCATC  
TACAAGTGGCTGTGTGCTGGGCTGCCAGGGCCGCTCGGGCCCCAGCATCCTCATCCACTTCATCAACATGTTT  
CTCTTCTCCACAGCCCCAGCAACAGGCTGCTTACCCCGGCGAGGAGGTGGTCCAGGCCACGCTGGTGGTCTG  
GCCTTGGCCATGGTGCCATCTGCTGCTTGGCACACCCCTGCACCTGCTGCACCGCCACCGCCGCCGCTGCGG  
AGGAGGCCGCTGACCGACAGGAGGAAAACAAGGCCGGGTTGCTGGACCTGCCTGACGCATCTGTGAATGGCTGG  
AGCTCCGATGAGGAAAAGGCAGGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCCCTCCGAGGTGCTCATG  
CACCAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCCTACCTGCGCCTGTGGGCC  
CTGAGCCTGGCCACGCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCCTGGGCCGG  
GAGGTGGGCGTGGCGGCTGTGGTGTGCTGGTCCCATCTTTGCCGCCCTTGCCGTGATGACCGTGGCTATCCTGCTG  
GTGATGGAGGACTCTCAGCCTTCTGTCACGCCCTGCGGCTGCACTGGGTGGAATTCCAGAACAAGTTCTACTCA  
GGCACGGGCTACAAGCTGAGTCCCTTACCTTCCGCTGCCACAGATGACTAGGGCCCACTGTCAGGTCTGCCAGAC  
CTCCTTCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGCAGTGA

3584/6881  
**FIGURE 3305**

MGSMFRSEEVALVQLFLPTAAAYTCVSRLGELGLVEFRDLNASVSAFQRRFVVDVRRCEELEKTFTFLQEEVRRRA  
GLVLPPP KGRLPAPPPRDLRIQEETERLAQELRDVRGNQALRAQLHQLQLHAAVLRQGHEPQLAAAHDTGASE  
RTPLLQAPGGPHQDLRVNFVAGAVEPHKAPALERLLWRACRGFLIASFRELEQPLEHPVTGEPATWMTFLISYWG  
EQIGQKIRKITDCFHCHVFPPFLQQEEARLGALQQLQQSQELQEVLGETERFLSQVLGRVLQLLPPGQVQVHKMK  
AVYLALNQCSVSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGVSAVAHRIPCRDMPPTLIRTNRTASFQGIV  
DAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHLLMFLFALAMVLAENRPVKAQNEIWQTFFRGRYLLLLM  
GLFSIYTGFIIYNECFSRATSIFPSGWSVAAMANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGIDPIWSLAAN  
HLSFLNSFKMKMSVILGVVHMAFGVVLGVFNHVHFGQRHRLLETLPELTFLGLFGYLVFLVIYKWLCVWAARA  
ASAPSILIHFINMFLFSHSPSNRLLYPRQEVVQATLVVLALAMVPILLLGTPLHLLHRHRRRLRRRPADRQEENK  
AGLLDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAIHTIEFCLGCVSNTASYLRLWALSLAHAQLSEV  
LWAMVMRIGLGLGREVGVAAVVLVPIFAAFVMTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGTGYKLSPFTF  
AATDD

3585/6881  
**FIGURE 3306**

GGACGCCCCCTGCTCCAGGCCCCCGGGGGGCCGACACAGGACCTGAGGGTCAAGTGAGTGAGGGATGACCTCATGC  
CCTTTCTGGCCAGCCCAGAACCCCTGGCCAGTCGCTGGGCTGGGCCAGGCTGAGCTCCGACTCCTTGTCAGTGC  
TCTCCCCAGGCTGGCCCCGCTCCTCCTTCAGGCCCCGAACTTCCACAGTCCCAAGCCCTAGCCCTAGGGGGTT  
CTCCTCTTCTGGTCCTGCCCCGGGAGGCCTCTGCCTTCCCCTGTGGGCAGGGCCAGTGTGCCCAATTGCCCCGATT  
GCCCCGTGCTGGGCAGGGTCTGCCCCGGGGGGCCTGGTGGGGGAGGCAGGGCAGGAGGTTGGAGCAGCCCTGCCCA  
GCCCCGTGGCCGCCAGCTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAGCGCCTGCTCTGGA  
GGGCTGCGCGGCTTCTCATTGCCAGCTTCAGGGAGCTGGAGCAGCCGCTGGAGCACCCCGTGACGGGCGAGC  
CAGCCACGTGGATGACCTTCCCTCATCTCCTACTGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGGACT  
GCTTCCACTGCCACGTCTTCCCGTTTCTGCAGCAGGAGGAGGCCCGCCTCGGGGCCCTGCAGCAGCTGCAACAGC  
AGAGCCAGGAGCTGCAGGAGGTCTCGGGGAGACAGAGCGGTTCTTGAGCCAGGTGCTAGGCCGGGTGCTGCAGC  
TGCTGCCGCCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTACCTGGCCCTGAACCAAGTGCAGCGTGAGCA  
CCACGCACAAGTGCCCTCATTGCCGAGGCCTGGTGTCTGTGCGAGACCTGCCCGCCCTGCAGGAGGCCCTGCGGG  
ACAGCTCGATGGAGGAGGGAGTGAGTGCCGTGGCTACCCGCATCCCTGCCGGGACATGCCCCCACACTCATCC  
GCACCAACCGCTTCAGGCCAGCTTCAGGGCATCGTGGATGCCTACGGCGTGGGCCGCTACCAGGAGGTCAACC  
CCGCTCCCTACACCATCATCACCTTCCCCCTTCTGTTTGTGTGATGTTGCGGGATGTGGGCCACGGGTGCTCA  
TGTTCTCTTCGCCCTGGCCATGGTCCTTGCGGAGAACCGACCGGTGTGAAGGCCGCGCAGAACGAGATCTGGC  
AGACTTTCTTCAGGGGCCGTACCTGCTCCTGCTTATGGGCTGTCTCCATCTACACCGCTTCATCTACAACG  
AGTGCTTCAGTCGCCACCAGCAICTTCCCCTCGGGCTGGAGTGTGGCCGCCATGGCCAACCAAGTCTGGCTGGA  
GTGATGCATTCTGGCCCAGCACACGATGCTTACCCTGGATCCCAACGTCACCGGTGTCTTCTGGGACCTACC  
CCTTTGGCATCGATCTTATTTGGAGCCTGGCTGCCAACCCTTGAGCTTCTCAACTCCTTCAAGATGAAGATGT  
CCGTCATCTTGGGCGTCGTGCACATGGCCTTTGGGGTGGTCTCGGAGTCTTCAACCACGTGCACTTTGGCCAGA  
GGCACCGGTGCTGCTGGAGACGCTGCCGGAGCTCACCTTCTGCTGGGACTCTTCGGTTACCTCGTGTTCCTAG  
TCATCTACAAGTGGCTGTGTGTCTGGGCTGCCAGGGCCGCTCGGCCCCAGCATCCTCATCCACTTCATCAACA  
TGTTCTCTTCTCCACAGCCCCAGCAACAGGCTGCTTACCCCCGGCAGGAGGTGGTCCAGGCCACGCTGGTGG  
TCCTGGCCTTGGCCATGGTGCCATCCTGCTGCTTGGCACACCCCTGCACCTGCTGCACCGCCACCGCCGCCGCC  
TGCGGAGGAGGCCCGCTGACCGACAGGAGGAAAACAAGGCCGGGTGCTGGACCTGCCTGACGCATCTGTGAATG  
GCTGGAGCTCCGATGAGGAAAAGGCAGGGGGCCTGGATGATGAAGAGGAGGCCGAGCTCGTCCCCTCCGAGGTGC  
TCATGCACCAAGGCCATCCACACCATCGAGTTCTGCCTGGGCTGCGTCTCCAACACCGCCTCTACCTGCGCCTGT  
GGGCCCTGAGCCTGGCCCACGCCAGCTGTCCGAGGTTCTGTGGGCCATGGTGATGCGCATAGGCCTGGGCCCTGG  
GCCGGAGGTGGGCGTGGCGGCTGTGGTGTGCTGCTCCCATCTTTGCCGCTTTGCCGTGATGACCGTGGCTATCC  
TGCTGGTGATGGAGGACTCTCAGCCTTCTGACGCCCTGCGGCTGCACTGGGTGGAATTCAGAACAAAGTTCT  
ACTCAGGCACGGGCTACAAGCTGAGTCCCTTACCTTCGTGCCACAGATGACTAGGGGCCACTGCAGGTCTGTC  
CAGACCTCCTTCTGACCTCTGAGGCAGGAGAGGAATAAAGACGGTCCGCCCTGGCAGTGAATAAAAAAAAAAAAA  
AAAAA



3586/6881  
**FIGURE 3307**

MTFLISYWGEQIGQKIRKITDCFHCHVFPFLQQEEARLGALQQLQQSQELQEVLGETERFLSQVLGRVLQLLPP  
GQVQVHKMKAVYLALNQCSVSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGVS AVAHRIPCRDMPPPTLIRTNR  
FTASFQGI VDAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHLLMFLFALAMVLAENRPAVKAAQNEIWQTFF  
RGRYLLLLLMGLFSIYTGFIYNECFSRATSIFPSGWSVAAMANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGI  
DPIWSLAANHLSFLNSFKMKMSVILGVVHMAFGVVLGVFNHVFHFGQRHRLLETLPELTFLLGLFGYLVFLVIYK  
WLCVWAARAASAPSILIHFINMF LFSHSPSNRLLYPRQEVVQATLVVLALAMVP ILLGTPHLHLHRHRRRLRRR  
PADRQEENKAGLLDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAIHTIEFCLGCVSNTASYLRLWALS  
LAHAQLSEVLWAMVMRIGLGLGREVGVAAVVLVPIFAAFVMTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGT  
GYKLSPFTFAATDD

3587/6881  
**FIGURE 3308**

CGGCCGAGGCTGCGGCCATGGCAGCATCTCCCTGACGGTCACCTTAGGGCGGCTGGCGTCCGCGTGCAGCCACA  
GCATCCTGAGACCTTCGGGGCCCGGAGCAGCCTCCCTTTGGTCTGCTTCTCGAAGGTTCAATTCACAGAGCACTT  
CATATCTACCAGGATATGTTCCCTAAAACATCCCTGAGTTCACCACCTTGGCCAGAAGTTGTTCTGCCAGACCCAG  
TTGAGGAGACCAGACACCATGCAGAGGTCGTGAAGAAGGTGAATGAGATGATCGTCACGGGGCAGTATGGCAGGC  
TCTTTGCCGTGGTGCACTTTGCCAGCCGCCAGTGAAGGTGACCTCTGAAGACCTGATCTTAATTGGAAATGAAC  
TAGACCTTGCCTGTGGAGAGAGAATTCGACTGGAGAAGTCTGCTGGTTGGGGCAGACAACTTCACGCTGCTTG  
GCAAGCCACTCCTCGGGTTAATGGCTGTGAAGTGCTGGGCTTTGTCTGGGGCTCCAGGGCTGGACATGCAGACAGT  
GGTCACAGTGCAATTAGGCCAGAAAGGATCTTGTTTCGAGTAGAAGCCACAGTCATTGAAAAGACAGAATCATGGC  
CAAGAATCATTATGAGATTCAGGAAAAGGAAAACTTCAAGAAGAAAAGAATCGTCACGACCCCGCAGACTGTCC  
TCCGATAAACAGCATTGAGATTGCTCCGTGTTTGTGTGATTACCGAGTTAATACTTACAAAAGGATAAAAATA  
AACTCCTGCTTCCCAAGG

3588/6881  
**FIGURE 3309**

MAASSLTVTLGRLASACSHSILRPSGPGAASLWSASRRFNSQSTSYLPGYVPKTSLSPPWPEVVLDPVEETRH  
HAEVVKKVNEMIVTGQYGRLEFAVVHFASRQWKVTSEDLILIGNELDLACGERIRLEKVLLVGADNFTLLGKPLL

3589/6881  
**FIGURE 3310**

GGCGCAGAAGCGGGACGTCGGCTTCTAGGGGCCAGGCCGGCGGGCGATGGCCTCGGCAGCTGTGGAGAGCTT  
CGTGACCAAGCAACTGGACCTGCTGGAGCTTGAGAGAGACGCGGAGGTGGAGGAGCGCAGGTCTTGGCAGGAGAA  
CATCTCTCTGAAAGAGCTCCAGAGCCGAGGCGTGTGTTTGTCTGAAGCTGCAGGTATCCAGCCAGCGCACTGGGCT  
GTACGGACGGCTGCTGGTCACCTTTGAGCCAGGCGATACGGGTCCGCGGCAGCTCTTCCAGTAACAGCTTTAC  
TTCTGGTGATATCGTGGGCCTGTACGATGCTGCTAATGAGGGCAGTCAGCTGGCCACTGGGATCTTGACCCGGGT  
CACCCAGAAGTCGGTCACGGTGGCCTTTGATGAGTCCCACGATTTCCAGTTGAGCTTGACCCGAGAGAATTCCTA  
CAGACTGTTAAACTTGCCAATGATGTCACTTACAGGCGACTGAAAAAGCCCTGATTGCTCTAAAGAAGTATCA  
TTCTGGCCAGCCTCCTCACTCATAGAAGTGCTCTTTGGCAGATCTGCTCCAGTCTGCCAGTGAAATACACCC  
GCTGACATTCTTCAACACCTGCCTGGACACCTCCAGAAAGAAGCGGTTTCATTGCGCTGTCTCAGAAAGAACT  
TGCCATCATCCATGGACCTCCTGGCACTGGGAAAACACGACTGTGGTTGAGATCATTCTTCAAGCTGTGAAACA  
AGGCTTAAAGGTTCTGTGCTGCGCCCCCTCCAACATCGCCGTGGACAATCTGGTGGAGCGCCTGGCTCTGTGTAA  
GCAGCGGATTCTGCGCCTGGGACACCTGCCCCCTCCTGGAGTCCATTGAGCAGCACTCCCTGGATGCGGTTTT  
AGCGCGGAGCGACAGTGGCCAGATTGTTGCAGATATCAGGAAGGACATCGACCAGGTCTTTGTAAAAACAAAA  
GACCCAGGATAAGAGAGAGAAAAGTAATTTTCGAAATGAAATTAAGCTGTTAAGAAAAGAACTGAAGGAGAGGGA  
AGAAGCAGCTATGCTCGAGAGCCTCACTTCGGCAAACGTGGTCTTGCAACAAACACAGGTGCGTCTGCCGATGG  
CCCCCTGAAGTTGCTGCCCCGAGAGCTACTTCGACGTGGTGGTCATTGACGAGTGTGCCAGGCCCTCGAGGCGAG  
CTGCTGGATCCCCCTGCTGAAGGCCAGAAAGTGCATCCTGGCGGGCGATCACAAGCAGCTGCCCCCACCACAGT  
CTCTCACAAGGCTGCGCTGGCAGGACTGTCACTAGCCTGATGGAACGCTGGCTGAGGAGTACGGCGCGAGGGT  
GGTGGCGACACTGACGGTGCAGTACCGCATGCACCAGGCTATCATGCGCTGGGCCTCAGACACCATGTACCTTGG  
GCAGCTCACAGCCCACTCTTCCGTGGCAAGGCACCTCCTGAGGGACCTCCAGGTGTGGCTGCCACAGAAGAGAC  
GGGTGTGCCCTGCTCTTGGTGGACACCGCCGGCTGCGGGCTGTTTGAGCTGGAGGAGGAGGACGAACAGTCGAA  
AGGGAACCTGGCGAAGTCCGCTCGTCAAGTTTGACATCCAGGCTCTGGTGGACGCTGGTGTTCAGCCCCGTGA  
CATTGCTGTGGTCTCGCCATAACAACCTCCAGGTGGACCTGCTCAGACAGAGCCTTGTCACAGGCACCTGAGCT  
TGAAATCAAGTCTGTGATGGCTTCCAAGGCCGAGAGAAGGAGGCCGTGATACTGTCTTCGTGAGTCCAACAG  
GAAAGGTGAAGTTGGTTTTCTTGCTGAGGACCGGAGGATCAACGTGGCTGTACCCGTGCCCGACGCCACGTGGC  
GGTCATCTGTGACTCCCGTACTGTCAACAACCATGCATTTTTGAAGACCTGGTGGAGTATTTACACAGCATGG  
GGAAGTACGCACGGCCTTTGAGTATCTTGACGATATTGTCCCAGAAAACATTCCCATGAGAACTCCAGGGTTT  
CAGCCACGCTGCCACCAAGCCCCAGGGACCTGCTACGTCCACCAGGACCGGAAGCCAGCGGCAGGAGGGAGGCCA  
GGAGGCTGCAGACCTGCCAGACAGGGCCGGAAGAAGCCGGCTGGGAAGTCTCTGGCCTCTGAAGCTCCATCTCA  
GCCCAGCCTCAACGGAGGCAGCCCAGAGGGAGTGAGAGCCAAGATGGCGTGGACCACTTCCGGGCCATGATAGT  
GGAGTTTATGGCCAGCAAGAAGATGCAGTTGGAGTTTCTCTCTTCCCTCAATTCCACGACAGGCTGCGGGTCCA  
CCAAATAGCCGAGGAGCACGGGCTGAGGCACGACAGTTCCGGGGAAGGGAAGAGGAGGTTTCACTGTGAGCAA  
GAGGGCCCCGCGACCCGAGCAGCCCTGGGACCCCCAGCAGGGACCGGTGGCCAGCCCTCTCCAGCCAGTGCC  
CCCTACCCCTGCGCAGACAGAGCAGCCTCCCAGGGAGCAGCGTGGCCAGACCAGCCTGATCTGAGGACGCTGCA  
CCTGGAGAGACTGCAGAGGGTCAGGAGCGCGCAGGGGCAGCCCGCCAGCAAGGAGCAGCAGGCCTCAGGGCAGCA  
GAAACTTCCAGAAAAGAAAAAGAAAAAGCCAAAGGACATCCGGCCACAGATCTGCCCAGGAGGAGGACTTTGA  
GGCCCTGGTTTTCTGCCGCGTTAAGGCTGATAACACCTGCGGCTTTGCCAAGTGCACAGCCGGCGTCAACCCCT  
GGGCCAGTTCTGCCAGCTCTGCAGCCGCGCTACTGCCTCAGCCACCACCTGCCCGAGATCCATGGCTGCGGTGA  
GAGGGCTCGCGCCCATGCCCGGCAGAGAATCAGCCGGGAAGGGTCTCTATGCCGGCAGCGGGACCAAGAACGG  
ATCCCTGGACCCAGCCAAGAGGGGCCAGCTGCAGAGGAGGCTGGATAAGAAGCTGAGTGAGCTCAGCAACCAGAG  
GACCAGCCGGAGGAAGGAGAGGGGGACGTGACCGGCCGCATCCTTGACGCCCCGCGGAGCTCTCTCCATGGTAG  
CCCAGGGCGCTGGCAGACCATGCTCCGCTCCACCAGGGCCACAGAGGAGCGGAGGGGCTATGGGGGAGGAGCG  
GAGGGCCCTGTTGGGGAAGGTTGGGTTTTTGGACCCAGGGATAAGCTTTTCCGATGTCAATGTGGAGGAAAG  
CACCTGGGGGACAACAGTGCTCGTGCAAGTGGGGCTTGGGAAATGCACGTCCCTTCCCTTACTCCCGCCCAAC  
CCACATCCAGCCTCTGGATCCTGGGGAAGTTCCAGTCC

3590/6881  
FIGURE 3311A

CACACGGACTACAGGGGAGTTTTGTGTAAGTTGCAAAGTCCTGGAGCCTCCAGAGGGCTGTCGGCGCAGTAGCAG  
CGAGCAGCAGAGTCCGCACGCTCCGGCGAGGGGCGAGAAGAGCGCGAGGGAGCGCGGGGCAGCAGAAGCGAGAGCC  
GAGCGCGGACCCAGCCAGGACCCACAGCCCTCCCCAGCTGCCCAGGAAGAGCCCCAGCCATGGAACACCAGCTCC  
TGTGCTGCGAAGTGGAACCATCCGCCGCGCTACCCCGATGCCAACCTCCTCAACGACCGGGTGTGCGGGCCA  
TGCTGAAGGCGGAGGAGACCTGCGCGCCCTCGGTGTCTTAAATGTGTGAGAAGGAGGTCTGCCGTCCA  
TGCGGAAGATCGTCGCCACCTGGATGTGAGGTCTGCGAGGAACAGAAGTGCGAGGAGGAGGTCTTCCCGCTGG  
CCATGAACCTACCTGGACCGCTTCTGTGCTGGAGCCCGTGAAGAGAGCCGCTGCAGCTGCTGGGGGCCACTT  
GCATGTTCTGGCCTCTAAGATGAAGGAGACCATCCCCCTGACGGCCGAGAAGCTGTGCATCTACACCGACAACCT  
CCATCCGGCCCCGAGGAGCTGCTGCAAATGGAGCTGCTCCTGGTGAACAAGCTCAAGTGGAACCTGGCCGCAATGA  
CCCCGCACGATTTCAATTGAACACTTCTCTCCAAATGCCAGAGGCGGAGGAGAACAACAGATCATCCGCAAAC  
ACGCGCAGACCTTCGTTGCCCTCTGTGCCACAGATGTGAAGTTCAATTCCAATCCGCCCTCCATGTTGCCAGCGG  
GGAGCGTGGTGGCCGAGTGCAAGGCTGAACCTGAGGAGCCCCAACAACTTCTGTCTACTACCGCTCACAC  
GCTTCTCTCCAGAGTGATCAAGTGTGACCCAGACTGCCTCCGGGCTGCCAGGAGCAGATCGAAGCCCTGCTGG  
AGTCAAGCCTGCGCCAGGCCCAGCAGAACATGGACCCCAAGGCCGCCGAGGAGGAGGAAGAGGAGGAGGAGG  
TGGACCTGGCTTGACACCCACCGACGTGCGGGACGTGGACATCTGAGGGGCGCCAGGCAGGCGGGGCCACCGCC  
ACCCGCAGCGAGGGCGGAGCCGGCCCCAGGTGCTCCCTGACAGTCCCTCCTCTCCGAGCATTTTGATACCAGA  
AGGGAAGCTTCATTCTCCTTGTGTGTTGTTTTCTCTTTGCTTTTCCCCCTTCCATCTCTGACTTAAGCA  
AAAGAAAAAGATTACCCAAAACTGTCTTTAAAGAGAGAGAGAGAAAAAAATAGTATTTGCATAACCTGA  
GCGGTGGGGGAGGAGGTTGTGCTACAGATGATAGAGGATTTTATACCCAATAATCAACTCGTTTTTATATTAA  
TGACTTGTCTCTGTGTGAAGATAGGCATTAACACAAAGGAGGCGTCTCGGGAGAGGATTAGGTTCCATCCT  
TTACGTGTTTTAAAAAAGCATAAAAAACATTTTAAAAACATAGAAAAATTCAGCAAACCATTTTTTAAAGTAGAAG  
AGGGTTTTAGGTAGAAAAACATATCTTGTGCTTTTCTGATAAAGCACAGCTGTAGTGGGGTTCTAGGCATCTC  
TGACTTTTGCTTGTCTCATATGCATGTAGTCATTTATAAGTCATTGTATGTTATTATATTCCGTAGGTAGATGTG  
TAACCTCTTCACCTTATTTCATGGCTGAAGTCACCTCTTGGTTACAGTAGCGTAGCGTGCCCGTGTGCATGTCTT  
TGCGCCTGTGACCACCACCCCAACAAACCATCCAGTGACAAACCATCCAGTGGAGGTTTGTGCGGCACCCAGCCAG  
CGTAGCAGGGTCGGGAAAGGCCACCTGTCCCCTCTACGATACGCTACTATAAAGAGAAGACGAAATAGTGACA  
TAATATATTCTATTTTTTATACTCTTCTATTTTTGTAGTGACCTGTTTATGAGATGCTGGTTTTCTACCCAACGG  
CCCTGCAGCCAGCTCACGTCCAGGTTCAACCCACAGCTACTTGGTTTGTGTTCTTCTTCATATTCTAAAACCAT  
CCATTTCCAAGCACTTTCACTCAATAGGTGTAGGAAATAGCGCTGTTTTTGTGTTGTGTGTCAGGGAGGGCAGTT  
TTCTAATGGAATGGTTTGGGAATATCCATGTACTTGTGTTGCAAGCAGGACTTTGAGGCAAGTGTGGGCCACTGTG  
GTGGCAGTGGAGGTGGGGTGTGTTGGGAGGCTGCGTGCCAGTCAAGAAGAAAAAGGTTTGCAATTCTCACATTGCCA  
GGATGATAAGTTCTTTTCTTTTAAAGAAGTTGAAGTTTAGGAATCCTTTGGTGCCAACTGGTGTGTTGAAA  
GTAGGGACCTCAGAGGTTTACCTAGAGAACAGGTGGTTTTTAAAGGTTATCTTAGATGTTTACACCCGAAGGTT  
TTTAAACACTAAAAATATAATTTATAGTTAAGGCTAAAAAGTATATTTATTGCAGAGGATGTTTATAAGGCCAG  
TATGATTTATAAATGCAATCTCCCTTGATTTAAACACACAGATACACACACACACACACACACACAAACC  
TTCTGCCTTTGATGTTACAGATTTAATACAGTTTATTTTTAAAGATAGATCCTTTTATAGGTGAGAAAAAACA  
TCTGGAAGAAAAAACCACACAAAGACATTGATTCAGCCTGTTTGGCGTTTCCAGAGTCATCTGATTGGACAGG  
CATGGGTGCAAGGAAAAATTAGGGTACTCAACCTAAGTTCGGTTCCGATGAATCTTATCCCCTGCCCCCTCCTTT  
AAAAAAGTTAGTGACAAAATAGACAATTTGCACATCTTGGCTATGTAATCTTGTAAATTTTATTTAGGAAGTGT  
TGAAGGGAGGTGGCAAGAGTGTGGAGGCTGACGTGTGAGGGAGGACAGGCGGGAGGAGGTGTGAGGAGGAGGCTC  
CCGAGGGGAAGGGGCGGTGCCACACCGGGGACAGGCCGAGCTCCATTTTCTTATTGCGCTGCTACCGTTGACT  
TCCAGGCACGGTTTGGAAATATTCACATCGCTTCTGTGTATCTTTTACATTGTTTGTGCTATTGAGGATCA  
GTTTTTGTGTTTACAATGTCATATACTGCCATGTACTAGTTTTAGTTTTCTCTTAGAACATTGTATTACAGATGC  
CTTTTTGTAGTTTTTTTTTTTTTATGTGATCAATTTGACTTAATGTGATTACTGCTCTATTCCAAAAAGGTT  
GCTGTTTACAATACCTCATGCTTCACTTAGCCATGGTGGACCCAGCGGGCAGGTTCTGCCTGCTTTGGCGGGCA  
GACACGCGGGCGGATCCACACAGGCTGGCGGGGGCGGGCCCCGAGGCCGCGTGCCTGAGAACCAGCGCGGGTGT  
CCCCAGAGACCAGGCTGTGTCCCTCTTCTTCCCTGCGCCTGTGATGCTGGGCACTTCATCTGATCGGGGGCGT  
AGCATCATAGTAGTTTTTACAGCTGTGTTATCTTTGCGTGTAGCTATGGAAGTTGCATAATTATTATTATTATT

3591/6881  
**FIGURE 3311B**

ATTATAACAAGTGTGTCTTACGTGCCACCACGGCGTTGTACCTGTAGGACTCTCATTTCGGGATGATTGGAATAGC  
TTCTGGAATTTGTTCAAGTTTGGGTATGTTTAATCTGTTATGTACTAGTGTCTGTTTGTATTGTTTTGTTAA  
TTACACCATAATGCTAATTTAAAGAGACTCCAAATCTCAATGAAGCCAGCTCACAGTGCTGTGTGCCCCGGTCAC  
CTAGCAAGCTGCCGAACCAAAAGAATTTGCACCCCGCTGCGGGCCACGTGGTTGGGGCCCTGCCCTGGCAGGGT  
CATCCTGTGCTCGGAGGCCATCTCGGGCACAGGCCACCCCGCCCCACCCCTCCAGAACACGGCTCACGCTTACC  
TCAACCATCCTGGCTGCGGCGTCTGTCTGAACCACGCGGGGCGCTTGAGGGACGCTTTGTCTGTCGTGATGGGGC  
AAGGGCACAAGTCCTGGATGTTGTGTGTATCGAGAGGCCAAAGGCTGGTGGCAAGTGCACGGGGCACAGCGGAGT  
CTGTCCTGTGACGCGCAAGTCTGAGGGTCTGGGCGGCGGGCGGCTGGGTCTGTGCATTTCTGGTTGCACCGCGGC  
GCTTCCCAGCACCAACATGTAACCGGCATGTTCCAGCAGAAGACAAAAAGACAAACATGAAAGTCTAGAAATAA  
AACTGGTAAAACCCCAAAAAAAAAAAAAAAAAA

3592/6881  
**FIGURE 3312**

MEHQLLCCEVETIRRAYPDANLLNDRVLRAMLKAEETCAPSVSYFKCVQKEVLPSMRKIVATWMLEVCEEQKCEE  
EVFPLAMNYLDRFLSLEPVKKSRLQLLGATCMFVASKMKETIPLTAEKLCIYTDNSIRPEELLQMELLLVNKLKW  
NLAAMTPHDFIEHFLSKMPEAEENKQIIRKHAQTFVALCATDVKFISNPPSMVAAGSVVAQGLNLRSPNNFLS  
YYRLTRFLSRVIKCDPDCLRACQEQIEALLESSLRQAQQNMDPKAAEEEEEEEEVDLACTPTDVRDVDI

3593/6881

**FIGURE 3313**

CTCTAAAGGTTTCGGGGGTGGAATCCTTGGGCCGCTGGGCAAGCGGCGAGACCTGGCCAGGGCCAGCGAGCCGAGG  
ACAGAGGGCGCACGGAGGGCCGGGCCGAGCCCCGGCCGCTTGCAGACCCCGCCATGGACCCGTTCTGGTGCTG  
CTGCACTCGGTGTCTGCCAGCCTGTCGAGCAGCGAGCTGACCGAGCTCAAGTTCCTATGCCTCGGGCGCGTGGGC  
AAGCGCAAGCTGGAGCGCGTGCAGAGCGGCCTAGACCTCTTCTCCATGCTGCTGGAGCAGAACGACCTGGAGCCC  
GGGCACACCGAGCTCCTGCGCGAGCTGCTCGCCTCCCTGCGGCGCCACGACCTGCTGCGGCGCGTGCAGCAGCTC  
GAGGCGGGGGCGGCGGGCCGGCCGCGCCTGGGGAAGAAGACCTGTGTGCAGCATTTAACGTCATATGTGATAAT  
GTGGGGAAAGATTGGAGAAGGCTGGCTCGTCAGCTCAAAGTCTCAGACACCAAGATCGACAGCATCGAGGACAGA  
TACCCCCGCAACCTGACAGAGCGTGTGCGGGAGTCACTGAGAATCTGGAAGAACACAGAGAAGGAGAACGCAACA  
GTGGCCACCTGGTGGGGGCTCTCAGGTCCTGCCAGATGAACCTGGTGGCTGACCTGGTACAAGAGGTTCAGCAG  
GCCCCGTGACCTCCAGAACAGGAGTGGGGCCATGTCCCCGATGTCATGGAACCTCAGACGCATCTACCTCCGAAGCG  
TCTTGATGGGCCGCTGCTTTGCGCTGGTGGACCACAGGCATCTACACAGCCTGGACTTTGGTTCTCTCCAGGAAG  
GTAGCCCAGCACTGTGAAGACCCAGCAGGAAGCCAGGCTGAGTGAGCCACAGACCACCTGCTTCTGAACCTCAAGC  
TGCGTTTATTAATGCCTCTCCCGCACCAGGCCGGGCTTGGGCCCTGCACAGATATTTCCATTTCTTCCTCACTAT  
GACACTGAGCAAGATCTTGTCTCCACTAAATGAGCTCCTGCGGGAGTAGTTGGAAGTTGGAACCGTGTCCAGCA  
CAGAAGGAATCTGTGCAGATGAGCAGTCACACTGTTACTCCACAGCGGAGGAGACCAGCTCAGAGGCCCCAGGAAT  
CGGAGCGAAGCAGAGAGGTGGAGAATGGGATTTGAACCCCGCCATCCTTCACCAGAGCCCATGCTCAACCACT  
GTGGCGTTCTGCTGCCCCTGCACTTGGCAGAAAGGATGTTTTGTCCATTTCTTGGAGGCCACCGGGACAGACC  
TGGACACTAGGGTCAGGCGGGGTGCTGTGGTGGGGAGAGGCATGGCTGGGGTGGGGGTGGGGAGACCTGGTTGGC  
CGTGGTCCAGCTCTTGGCCCCGTGTGAGTTGAGTCTCCTCTCTGAGACTGCTAAGTAGGGGCAGTGATGGTTGC  
CAGGACGAATTGAGATAATATCTGTGAGGTGCTGATGAGTGATTGACACACAGCACTCTCTAAATCTTCCTTGTG  
AGGATTATGGGTCTTCAATTCTACAGTTTCTTACTGTTTTGTATCAAAATCACTATCTTTCTGATAACAGAATT  
GCCAAGGCAGCGGGATCTCGTATCTTTAAAAAGCAGTCCTCTTATTCCTAAGGTAATCCTATTAAAA



3594/6881  
**FIGURE 3314**

MDPFLVLLHSVSSSLSSSELTFLKFLCLGRVGRKRLERVQSGLDLFSMLLEQNDLEPGHTELLRELLASLRRHDL  
LRRVDDFEAGAAAGAAPGEEDLCAAFNVICDNVGKDWRRRLARQLKVSDTKIDSIEDRYPRNLTERVRESLRIWKN  
TEKENATVAHLVGALRSCQMNLVADLVQEVQQARDLQNRSGAMSPMSWNSDASTSEAS

3595/6881  
**FIGURE 3315**

GAAGCCAGGCTGAGTGAGCCACAGACCACCTGCTTCTGAACTCAAGCTGCGTTTATTAATGCCTCTCCCGCACCA  
GGCCGGGCTTGGGCCCTGCACAGATATTTCCATTTCTTCTCACTATGACACTGAGCAAGATCTTGTCTCCACTA  
AATGAGCTCCTGCGGGAGTAGTTGGAAAGTTGGAACCGTGCCAGCACAGAAGGAATCTGTGCAGATGAGCAGTC  
ACACTGTTACTCCACAGCGGAGGAGACCAGCTCAGAGGCCAGGAATCGGAGCGAAGCAGAGAGGTGGAGAAGT  
GGATTGAACCCCCGCCATCCTTCACCAGAGCCCATGCTCAACCACTGTGGCGTTCTGCTGCCCCTGCAAGTTGGC  
AGAAAGGATGTTTTGTCCCATTTCTTGGTCCAGCTCTTGGCCCCGTGTGTGAGTTGAGTCTCCTCTCTGAGACTG  
CTAAGTAGGGGCAGTGATGGTTGCCAGGACGAATTGAGATAATATCTGTGAGGTGCTGATGAGTGATTGACACAC  
AGCACTCTCTAAATCTTCCTTGTGAGGATTATGGGTCTGCAATTCTACAGTTTCTTACTGTTTTGTATCAAAAT  
CACTATCTTTCTGATAACAGAATTGCCAAGGCAGCGGGATCTCGTATCTTTAAAAAGCAGTCCTCTTATTCCTAA  
GGTAATCCTATTAAAACACAGCTTTACAACCTCCATACTAC

3596/6881  
**FIGURE 3316A**

GAATTCGGGGCCCCCGGCCGTCCCTCTTAAGGCTCTTCCTCCGCTCCGCCAGTGTCCGGCCGCGGGCCGGCCCTTA  
GTGACTGGGGCGGCGGGCCCCGGGGCCGCGCGTGGGGCGGGCAGGCGGACGCCGGCCGCGGGCTGCTTTCGTG  
GCTCCCAAGCTCTCCCGAGCGAGCAGCCGCCGCGAGCCGCCGCGGAGCCTCCTCGCCCGCTCCCGCCGGCGAG  
CAAGATGATGTGCGAGGTGATGCCGACCATCAGCGAAGCAGAAGGCCCCCTTGAGGAGGTGGAGGCCATGGTTC  
CGGCTCCCCTTCACAGCCAGATGCAGATTACATTTTGAACAGTTGATGGTCTCCATGCTAGAAGAAAGGGACCG  
CCTTCTTGATACACTGAGAGAGACTCAAGAAACGCTGGCCTTAACCCAGGGGAAGTTACACGAGGTGGTCATGA  
AAGAGATTCTTGCAGAGACAGCTCAACACGGCACTTCCACAGGAGTTTCGAGCACTTACTAAAGAACTCAATGT  
ATGCAGGGAACAGCTCCTTGAAAGGGAAGAAGAAATTGCTGAACTGAAAGCAGAAAGGAATAACACCAGGCTGCT  
GTTAGAGCATTTGGAATGCCTTGCTCCAGGCATGAGCGGTCTCTTAGGATGACCGTGGTGAAGAGACAAGCGCA  
GTCTCCAGCAGGCGTGTCCAGCGAAGTGGAGTGCTGAAAGCACTGAAGTCTTATTGAACACCACAAAGCTCT  
GGATGAAAAGGTGAGAGAGCGATTACGAGTAGCACTTGAAGATGTAGTTTGTAGAAGAGGAATTAGGTGCCAC  
ACACAAAGAGCTAATGATTCTTAAAGAACAGAATAATCAGAAAAAACTCTAACAGATGGAGTGTGGACATAAA  
CCATGAACAAGAAAATACACCAAGCAGAGTGGAAAGAGATCTTCTGATGGTCTTTAAGCCACGAGGAAGACCT  
TGCTAAAGTAATTGAGCTCCAAGAAATCATAAGTAAGCAGTCAAGGGAACAGAGCCAAATGAAAGAACGCTGGC  
TTCCCTTTCCAGTCATGTGACAGAACTGGAAGAGGATCTGGACACGGCTAGAAAAGATCTCATCAAATCTGAAGA  
AATGAACACAAAATTGCAACGAGATGTCCGTGAAGCCATGGCCAAAAGGAAGATATGGAAGAGAGAATCACTAC  
TCTTGAAAAACGCTACCTCGCTGCACAGCGTGAAGCCACATCTGTGCATGACCTCAATGATAAACTTGAAAATGA  
AATTGCAATAAAGATTCTATGCATCGACAGACTGAAGATAAAAACCGCCAGTTACAGGAGCGCTTGGAAATTGGC  
AGAGCAAAAGCTGCAACAGACACTGAGGAAGGCAGAGACGCTCCCGAGGTGGAGGCGGAGCTGGCCAGAGGGT  
GGCAGCGCTTCCAAGGCTGAAGAGAGACACGGCAACATTGAAGAAAGGTTACGACAGATGGAAGCAGATTGGA  
GGAGAAGAATCAAGAACTGCAGCGGGCAAGGCAAGAGAAAAAATGAACGAAGAACATAATAAACGTTTATCAGA  
CACTGTTGACAAGCTGCTTTTCAATCTAATGAGAGGCTTCAACTTCATCTTAAAGAGAGAATGGCTGCTTTGGA  
AGATAAGAACTCTCTTTTAAAGAGAAGTTGAAAGTGCAAAAAAGCAGTTAGAAGAAACACAACACGATAAGGATCA  
GCTTGCTCTAAACATTGAAGCACTGAGGGCTGAAGTAGACCACATGAGACTAAGAGGTGCTTCACTTCATCATGG  
CCGACCCCACTTGGGCAGTGTCCAGATTTTCAAGTTTCCCATGGCAGACGGCCACACAGACTCCTACAGCACCAG  
TGCAGTGTGCGGCGCCACAGAAAGGCCGGCTGGCAGCCCTGCGAGATGAGCCTTCCAAGGTACAACTCTTAA  
TGAGCAGGATTGGGAACGTGCCCAGCAAGCTAGTGTCTTGGCAATGTAGCACAAGCATTGAGAGTGATGCTGA  
CGTGTCTGATGGTGAAGATGACAGGGACACTCTCCTCAGCTCAGTTGACCTGCTATCGCCAGCGGGCAGGCCGA  
CGCGCACACACTAGCCATGATGCTTCAGGAGCAGCTGGACGCCATCAACAAAGAGATCAGGTTGATTACGGAAGA  
AAAAGAAAATACAGAGCAGCGGGCAGAGGAGATTGAAAGTCGAGTTGGCAGTGAAGTCTAGACAATCTTGGTCG  
TTTATGATCAATGAGCTCCATTCCCCCTACCTGCTTCTCGCTTGCTAGCTCCTCCCTCCGGGCAGTGGGCG  
CTCCACCCACGAAGGATCCCTCACAGCCAGCTCGGGAAGTGGACAGACTGGGCGTCATGACCCTTTTGCCACC  
TTCCAGAGAAGAGGTACGAGATGACAAGACAACCATAAAGTGTGAAACCTCCCGCCTTCTCCCGAGAGCCCT  
TCGGTTAGACCGGCTGCACAAAGGGGCGCTGCACACCGTCAGCCACGAGGACATCAGGGACATAAGGAACTCCAC  
AGGCTCCCAGGATGGTCCCGTGAGCAACCCACGAGTAGCAACAGTAGCCAGGACTCGCTCCACAAAGCCCCAAA  
GAAGAAAGGCATTAAAGTCTCCATTGGCCGCTTGTTTGGCAAGAAAGAAAAGGGCCGACCTGGACAACTGGCAA  
AGAAGCATTAGGACAAGCTGGTGTTCGAGACGGATAACTCATCTCAGGATGCCTTGGGACTTAGCAAATTGGG  
GGGACAGGCTGAAAAAATCGTAACTTCAAAAAAGCATGAATTGCTGGAGGAAGCCCGGAGACAAGGTTTACC  
TTTTGCCAATGGGACGGGCCAACGGTTGTGGTCTGGCTAGAGCTCTGGGTGGGATGCCAGCCTGGTATGTGGC  
TGCTTCCGAGCAAACTGAAAAGCGGGGCCATCATGTCCGCCCTGTCCGACACAGAGATCCAGCGTGAGATTGG  
CATCAGCAACCCCTGCACAGGCTGAAGCTGAGGCTGGCCATCCAGGAGATCATGTGCTGACCAGCCCGTCTGC  
CCCGCCACATCTAGAACGACACTCGCCTATGGGGACATGAACCACGAGTGGATCGGCAACGAGTGGCTCCCCAG  
CCTGGGCCTCCCCAGTACCGCAGCTACTTCATGGAGTGCCTTGTAGACGCCAGGATGCTGGACCACTTGACCAA  
GAAAGACCTTCGAGGGCAGCTGAAAATGGTCGACAGTTTCACAGAAACAGTTTCCAGTGTGGAATTATGTGCT  
GAGAAGGTTAAATTATGACCGGAAAGAACTGGAAAGAAAAAGAGAAGAAAGTCAAGTGAATAAAAGACGTGCT  
TGTTTGGAGCAATGATCGAGTGATTGCTGGATCTGTCAATTGGCCTTAAAGAATATGCAACAATCTTATAGA  
GAGTGGTGTTCACGGAGCACTTCTGGCCTTAGATGAAACCTTCGACTTCAGTGCCTGGCACTGCTGTTACAGAT  
CCCCAGCAGAACACACAGGCTCGTGTCTTGGAAAGAGAATTTAACAACCTTTTGGTCATGGGACTGATAG

3597/6881  
**FIGURE 3316B**

AAGGTTTGATGAAGATGATGATAAAAGCTTTAGGAGAGCACCTTCATGGAGAAAAAGTTTAGACCAAAGGACAT  
TCGTGGCTTAGCTGCTGGGTCAGCAGAGACTCTCCCTGCAAACCTCCGGGTGACTTCTTCTATGTCTTCCCCCTC  
TATGCAGCCAAAGAAGATGCAGATGGACGGCAATGTATCAGGAACACAGAGGTTGGATTCTGCTACAGTCAGGAC  
TTACTCCTGCTAAAGTCTCCTGTTGTTTACCCACACTACTTCTACAGATGATTATGCAGCATTGAATCCAACAA.  
AGACTACATTTTGGGAACCAGTGGAATCTTTAATCTTGTTAATACTTGTTATATGGACCCTAAGATATTTATTAC  
AGAGTTTTTAATTAGTGAAAAATTCATGAATACCATAGAGAAAATATTTAGAAATTTAATGTTTCTTATATTTAT  
GTAAACTTATGACTCTTCATTTATATAGTTACTTACTTTTTTCATGTATATCCAGGCTATAAATATCCTTTCAAAT  
CATGTTCTTATACCTAATTTTAGTCTTTCAAATGAATGTACTGTAATGCTGTATGTATAAATCCTATGAATAGA  
GGGCTTTTGTAATTATGCATTTATTGTAATTATCATTATTTTTTAATGATAAACCATGACAAAGGATTTTACG  
TTTATAAAATTATGACAGAAGCCATGTGCCCCGAATTC

3598/6881

**FIGURE 3317**

MMCEVMPTISEAEGPPGGGGHSGSGSPSQPDADSHFEQLMVSMLEERDRLLDTLRETQETLALTQGKLHEVGHER  
DSLQRLNTALPQEFALTKELVNCREQLLEEEEEIAELKAERNNTRLLEHLECLVSRHERSLRMTTVVKRQAQS  
PAGVSSEVEVLKALKSLFEHHKALDEKVRERLRVALERCSSLLEELGATHKELMILKEQNNQKKTLDGVLDINH  
EQENTPSTSGKRSSDGLSHEEDLAKVIELQEIISKQSREQSOMKERLASLSSHVTELEEDLDTARKDLIKSEEM  
NTKLQRDVREAMAQKEDMEERITTLEKRYLAAQREATSVHDLNDKLENEIANKDSMHRQTEDKNRQLQERLELAE  
QKLQOTLRKAETLPEVEAELAQRVAALSKAEERHGNIEERLRQMEAQLEEKQELQARQREKMNEEHNKRLSDT  
VDKLLSESNERLQLHLKERMAALEDKNSLLREVESAKKQLEETQHDKDQLVLNIEALRAELDHMLRGASLHHGR  
PHLGSVPDFRFPMDAGHTDSYSTSAVLRPPQKGRLAALRDEPSKVQTLNEQDWERAAQASVLANVAQAFESDADV  
SDGEDDRDTLLSSVDLLSPSGQADAHTLAMMLQEQLDAINKEIRLIQEEKENTEQRAREIESRVGSGSLDNLGRF  
RSMSSIPPYPASSLASSSPPGSGRSTPRRIPHSPAREVDRLGVMTLLPPSREEVRDDKTTIKCETSPSSPRALR  
LDRLHKGALHTVSHEDIRDIRNSTGSQDGPVSNPSSSNSSQDSLHKAPKKKGIKSSIGRLFGKKEKGRPGQTGKE  
ALGQAGVSETDNSSQDALGLSKLGGQAEKNRKLQKKHELLEEARQGLPFAQWDGPTVVVWLELWVGMPAWYVAA  
CRANVKSGAIMSALSDTEIQREIGISNPLHRLKLRLAIQEIMSLTSPSAPPTSRTTLAYGDMNHEWIGNEWLPSL  
GLPQYRSYFMECLVDARMLDHLTKKDLRGQLKMVDSFHRNSFQCGIMCLRRLNYDRKELERKREESQSEIKDVLV  
WSNDRVIRWILSIGLKEYANNLIESGVHGALLALDETFDFSALALLLQIPTQNTQARAVLEREFNNLLVMGTDRR  
FDEDDKSFRRAPSWRKKFRPKDIRGLAAGSAETLPANFRVTSSMSSPSMQPKMQMDGNVSGTQRLDSATVRTY  
SC

3599/6881  
**FIGURE 3318A**

ACGAAGAGGTACGATTCCGGAGAATCGCGAGGCAGAGCGGGAGCGCGCAGCCAGGTGGAACTAATTCTAAGCCA  
GACTGCTGGAGATCACCTGTCTTAGTGTGTGGAGGCTTCCACCAGGAGGCGCATTGGAGTGACTGTCTGGCATC  
ACCAAGATGACACTCCACGCCACCCGGGGGGCTGCCTCTCTTGGGTGAACAGTCTACACGTGGCTGACCTT  
GTGGAGGCTGTGCTGCAGCTCCAGGACTGCAGCATCTTCATCAAGATCATTGACAGAATCCATGGCACTGAAGAG  
GGACAGCAAATCTTGAAGCAGCCGGTGTGAGAGAGACTGGACTTTGTGTGCAGTTTTCTGCAGAAAATCGAAAC  
ATCCCTCTTCCCAGAATGCCTGGTATCTGCACAGAAGGTGCTAGAGGGATCAGAGCTGGAACGGCGAAGATGA  
CCATGTGCTCTTATACCACTCTACCATGAGCTCCAAAAGTCCAGGGACTGGGAACAGTTTGAATATAAAATTC  
AGGCTGAGTTGGCTGTCTTCTTAAATTTGTGCTGGACCATGAGGACGGGCTAAACCTTAATGAGGACCTAGAGA  
ACTTCTACAGAAAGCTCCTGTGCTTCTACCTGTTCTAGCACATTCCCTGAAGAGCTCTCCCCACCTAGCCACC  
AGGCCAAGAGGGAGATTGCTTCTTAGAGCTACAGAAGGTTGCCTCTCTTCCAGTGGGAACAACTTTCTCTCAG  
GTTCTCCAGCTTCTCCCATGGGTGATATCCTGCAGACCCACAGTTCCAGATGAGACGGCTGAAGAAGCAGCTTG  
CTGATGAGAGAAGTAATAGGGATGAGCTGGAGCTGGAGCTAGCTGAGAACCAGCAAGCTCCTCACCAGAAGGATG  
CACAGATAGCCATGATGCAGCAGCGCATTGACCGCTAGCCCTGCTGAATGAGAAGCAGGCGGCCAGCCACTGG  
AGCCCAAGGAGCTTGAGGAGCTGCGTGACAAGAATGAGAGCCTTACCATGCGGCTGCATGAAACCTGAAGCAGT  
GCCAGGACCTGAAGACAGAGAAGAGCCAGATGGATCGCAAAATCAACCAGCTTTCGGAGGAGAATGGAGACCTTT  
CCTTTAAGCTGCGGGAGTTTGCCAGTCTATCTGCAGCAGCTACAGGATGCCCTCAATGAGCTGACGGAGGAGCACA  
GCAAGGCCACTCAGGAGTGGCTAGAGAAGCAGGCCAGCTGGAGAAGGAGCTCAGCGCAGCCCTGCAGGACAAGA  
AATGCCTTGAAGAGAAGAACGAAATCCTTCAGGGAACCTTTACAGCTGGAAGAACAATTGTCCAGCTGCAGG  
ATAACCCACCCAGGAGAAGGGCGAGGTGCTGGGTGATGTCTTGCAGCTGGAACCTTGAAGCAAGAGGCAGCCA  
CTCTTGCTGCAAAACAACACAGCTCCAAGCCAGGGTAGAGATGCTGGAGACTGAGCGAGGCCAGCAGGAAGCCA  
AGCTGCTTGCTGAGCGGGGCCACTTGAAGAAGAAAAGCAGCAGCTGTCTAGCCTGATCACTGACCTGCAGAGCT  
CCATCTCCAACCTCAGCCAGGCCAAGGAAGAGCTGGAGCAGGCCCTCCAGGCTCATGGGGCCCGTTGACTGCCC  
AGGTGGCCTCTCTGACCTCTGAGCTCACCACACTCAATGCCACCATCCAGCAACAGGATCAAGAACTGGCTGGCC  
TGAAGCAGCAGGCCAAAGAGAAGCAGGCCAGCTAGCACAGACCCTCCAACAGCAAGAACAGGCCTCCAGGGCC  
TCCGCCACCAGGTGGAGCAGCTAAGCAGTAGCCTGAAGCAGAAGGAGCAGCAGTTGAAGGAGGTAGCGGAGAAGC  
AGGAGGCAACTAGGCAGGACCATGCCAGCAACTGGCCACTGTCTGCAGAGGAGCGAGAGGCCTCCTTAAGGGAGC  
GGGATGCGGCTCTCAAGCAGCTGGAGGCACTGGAGAAGGAGAAGGCTGCCAAGCTGGAGATTCTGCAGCAGCAAC  
TTCAGGTGGCTAATGAAGCCCGGACAGTGCCAGACCTCAGTGACACAGGCCAGCGGGAGAAGGCAGAGCTGA  
GCCGGAAGGTGGAGGAACCTCAGGCCTGTGTTGAGACAGCCCGCCAGGAACAGCATGAGGCCAGGCCAGGTTG  
CAGAGCTAGAGTTGCAGCTGCGGTCTGAGCAGCAAAAAGCAACTGAGAAAGAAAGGTTGGCCAGGAGAAGGACC  
AGCTCCAGGAGCAGCTCCAGGCCCTCAAAGAGTCTTGAAGGTACCAAGGGCAGCCTTGAAGAGGAGAAGCGCA  
GGGCTGCAGATGCCCTGGAAGAGCAGCAGCGTTGTATCTCTGAGCTGAAGGCAGAGACCCGAAGCCTGGTGGAGC  
AGCATAAGCGGGAACGAAAGGAGCTGGAAGAAGAGAGGGCTGGGCGCAAGGGGCTGGAGGCTCGATTACAGCAGC  
TTGGGGAGGCCCATCAGGCTGAGACTGAAGTCTGCGGCGGGAGCTGGCAGAGGCCATGGCTGCCAGCACACAG  
CTGAGAGTGAGTGTGAGCAGCTCGTCAAAGAAGTAGCTGCCTGGCGTGAGCGGTATGAGGATAGCCAGCAAGAGG  
AGGCACAGTATGGCGCCATGTTCCAGGAACAGCTGATGACTTTGAAGGAGGAATGTGAGAAGGCCCGCCAGGAGC  
TGCAGGAGGCAAGGAGAAGGTGGCAGGCATAGAATCCACAGCGAGCTCCAGATAAGCCGGCAGCAGAACGAAC  
TAGCTGAGCTCCATGCCAACCTGGCCAGAGCACTCCAGCAGGTCCAAGAGAAGGAAGTCAGGGCCCGAGAAGCTTG  
CAGATGACCTCTCCACTCTGCAGGAAAAGATGGCTGCCACCAGCAAGAGGTGGCCCGCTTGGAGACCTTGGTGC  
GCAAGGCAGGTGAGCAGCAGGAAACAGCCTCCCGGGAGTTAGTCAAGGAGCCTGCGAGGGCAGGAGACAGACAGC  
CCGAGTGGCTGGAAGAGCAACAGGGACGCCAGTTCTGCAGCACACAGGCAGCGCTGCAGGCTATGGAGCGGGAGG  
CAGAGCAGATGGCAATGAGCTGGAACGGCTGCGGGCCGCGCTGATGGAGAGCCAGGGGCAGCAGCAGGAGGAGC  
GTGGGCAGCAGGAAAGGGAGGTGGCGCGGCTGACCCAGGAGCGGGGCCGTGCCAGGCTGACCTTGCCCTGGAGA  
AGGCGGCCAGAGCAGAGCTTGAGATGCGGCTGCAGAAGCCCTCAACGAGCAGCGTGTGGAGTTGCTACCTTGC  
AAGAGGCACTGGCTCATGCCCTGACGGAAGGAAGGCAAGGACCAGGAGTTGGCCAAGCTTCGTGGTCTGGAGG  
CAGCCAGATAAAAAGAGCTGGAGGAACTTCGGCAAAACCGTGAAGCAACTGAAGGAACAGCTGGCTAAGAAAGAAA  
AGGAGCACGCATCTGGCTCAGGAGCCCAATCTGAGGCTGCTGGCAGGACAGAGCCAACAGGCCCAAGCTGGAGG  
CACTGCGGGCAGAGGTGAGCAAGCTGGAACAGCAATGCCAGAAGCAGCAGGAGCAGGCTGACAGCCTGGAACGCA

3600/6881  
**FIGURE 3318B**

GCCTCGAGGCTGAGCGGGCCTCCCGGGCTGAGCGGGACAGTGCTCTGGAGACTCTGCAGGGCCAGTTAGAGGAGA  
AGGCCCAGGAGCTAGGGCACAGTCAGAGTGCCTTAGCCTCGGCCAACGGGAGTTGGCTGCCTTCCGCACCAAGG  
TACAAGACCACAGCAAGGCTGAAGATGAGTGGAAGGCCAGGTGGCCCGGGCCGGCAAGAGGCTGAGAGGAAAA  
ATAGCCTCATCAGCAGCTTGAGGAGGAGGTGTCCATCTGAATCGCCAGGTCTGGAGAAGGAGGGGGAGAGCA  
AGGAGTTGAAGCGGCTGGTGATGGCCGAGTCAGAGAAGAGCCAGAAGCTGGAGGAGAGGCTGCGCCTGCTGCAGG  
CAGAGACAGCCAGCAACAGTGCCAGAGCTGCAGAACCAGCAGCTCTGCTCTGCGGGAGGAGGTGCAGAGCCTCCGGG  
AGGAGGCTGAGAAACAGCGGTGGCTTCAGAGAACCTGCGGCAGGAGCTGACCTCACAGGCTGAGCGTGCAGGAGG  
AGCTGGGCCAAGAATTGAAGGCGTGGCAGGAGAAGTTCTCCAGAAAGAGCAGGCCCTCTCCACCCTGCAGCTCG  
AGCACACCAGCACACAGGCCCTGGTGAGTGAGCTGCTGCCAGCTAAGCACCTCTGCCAGCAGCTGCAGGCCGAGC  
AGGCCGCTGCCGAGAAACGCCACCGTGAGGAGCTGGAGCAGAGCAAGCAGGCCGCTGGGGGACTGCGGGCAGAGC  
TGCTGCGGGCCAGCGGGAGCTTGCGGAGCTGATTCTCTGCGGCAGAAGGTGGCAGAGCAGGAGCGAACAGCTC  
AGCAGCTGCGGGCAGAGAAGGCCAGCTATGCAGAGCAGCTGAGCATGCTGAAGAAGGCGCATGGCCTGCTGGCAG  
AGGAGAACCGGGGGCTGGGTGAGCGGGCCAACCTTGGCCGCGCAGTTTCTGGAAGTGAGTTGGACCAGGCCCGGG  
AGAAGTATGTCCAAGAGTTGGCAGCCGTACGTGCTGATGCTGAGACCCGCTCTGGCTGAGGTGCAGCGAGAAGCAC  
AGAGCACTGCCCGGGAGCTGGAGGTGATGACTGCCAAGTATGAGGGTGCCAAGGTCAAGGTCTGGAGGAGAGGC  
AGCGGTTCCAGGAAGAGAGGCAGAACTCACTGCCCAGGTGGAGCAGCTAGAGGTATTTTCAGAGAGAGCAAACTA  
AGCAGGTGGAAGAACTGAGTAAGAACTGGCTGACTCTGACCAAGCCAGCAAGGTGCAGCAGCAGAAGCTGAAGG  
CTGTCCAGGCTCAGGGAGGCGAGAGCCAGCAGGAGGCCAGCGCCTCCAGGCCAGCTGAATGAAGTGAAGGCC  
AGTTGAGCCAGAAGGAGCAGGCAGCTGAGCACTATAAGCTGCAGATGGAGAAAGCCAAAACACATTATGATGCCA  
AGAAGCAGCAGAACCAAGAGCTGCAGGAGCAGCTGCGGAGCCTGGAGCAGCTGCAGAAGGAAAACAAAGAGCTGC  
GAGCTGAAGCTGAACGGCTGGGCCATGAGCTACAGCAGGCTGGGCTGAAGACCAAGGAGGCTGAACAGACCTGCC  
GCCACCTTACTGCCCAGGTGCGCAGCCTGGAGGCACAGGTTGCCCATGCAGACCAGCAGCTTCGAGACCTGGGCA  
AATTCCAGGTGGCAACTGATGCTTTAAGAGCCGTGAGCCCCAGGCTAAGCCCCAGCTGGACTTGAGTATTGACA  
GCCTGGATCTGAGCTGCGAGGAGGGGACCCCACTCAGTATCACCAGCAAGCTGCCTCGTACCCAGCCAGACGGCA  
CCAGCGTCCCTGGAGAACCAGCCTCACCTATCTCCAGCGCCTGCCCCCAAGGTAGAATCCCTGGAGAGTCTCT  
ACTTCACTCCCATCCCTGCTCGGAGTCAGGCCCCCTGGAGAGCAGCCTGGACTCCCTGGGAGACGTCTTCCTGG  
ACTCGGGTCGTAAGACCCGCTCCGCTCGTGGCGCACCACGCAGATCATCAACATCACCATGACCAAGAAGCTAG  
ATGTGGAAGAGCCAGACAGCGCCAACCTCATGTTCTACAGCAGCGGCTGCTCCTGCTTCCAGGCTAGCCTGC  
GAGCCACCTCCTCTACTCAGTCTCTAGCTCGCCTGGGTTCTCCCGATTATGGCAACTCAGCCCTGCTCAGCTTGC  
CTGGCTACCGCCCCACCACTGCAGTTCTGCTCGTCTCCAGGCCGGGTGTCCAGTGGGGCCCTCCAGGAA  
GGAACAGCTTCTACATGGGCACTTGCCAGGATGAGCCTGAGCAGCTGGATGACTGGAACCGCATTGCAGAGCTGC  
AGCAGCGCAATCGAGTGTGCCCCCACTCTGAAGACCTGCTATCCCCTGGAGTCCAGGCCTTCCCTGAGCCTGG  
GCACCATCACAGATGAGGAGATGAAAACCTGGAGACCCCAAGAGACCCTGCGCCGAGCCAGCATGCAGCCAATCC  
AGATAGCCGAGGGCACTGGCATCACCACCCGGCAGCAGCGCAACGGGTCTCCCTAGAGCCCCACAGGGCCCTG  
GAACTCCTGAGTCTAAGAAGGCCACCAGCTGTTTCCACGCCCATGACTCCCCGAGACCGACATGAAGGGCGCA  
AACAGAGCACTACTGAGGCCAGAAGAAAGCAGCTCCAGCTTCTACTAAACAGGCTGACCGGCGCCAGTCGATGG  
CCTTCAGCATCTCAACACACCCAAGAAGCTAGGGAACAGCCTTCTGCGGCGGGGAGCCTCAAAGAAGGCCCTGT  
CCAAGGCTTCCCCAACACTCGCAGTGGAACCCGCCGTTCTCCGCGCATTGCCACCACCACAGCCAGCGCCGCCA  
CTGCTGCGGCCATTGGTGCCACCCCTCGAGCCAAGGGCAAGGCAAGCACTAAAGGGCCAGTACCAGTGAGTGGC  
CCCACCTGTGTCCCGATGCTGACCTCACCTGGTCTCCGCTACTGTCCCTCTCAGTGCCTTCTCTCAGCTCCC  
AGGCCAACAGTAGCCAAACCCCTAGAGACAGTGATGCCTGCCCCGACCCTGGCCTGGTCCCTGGTCTCTCACTGG  
CGCCTTCTCGGAGCTGGCCAGGGGGCCTGGAGCATGGACAGTGTGGGCGCTCTCCCTACCTTGCTCTCTTTT  
CTTAAAGCAAAGTCACTTCTCCATCACAACCAGATTGAGGCTGGTTTGATGGCTGGGTCTTGGGCTGGCCA  
GTCTTCTCTTAGCCTCTGGATCTAGAAGGGACCATAAGAGGAGTAGGCCCTGGTTCTGCTGTCTGGTGGCTG  
GGCCAGCAGGGGCCCTCACTCTGAAGTCCAGGACTGGGTCTGACCTGGTGGGAGCACTGCCAGAGGATGCTC  
TTTCCAGGACGGATGGGCCCTATGTCTCAGGAGTGGGGTGGGGGACAGCCTTCAGCAGCAGCTCACACCCTAC  
CTTCCCCAGACTTGCACITGGGTGGGATTTGGAGTGATGGGAAGGTTTTAAGGGCGGGGATGGATCTTTCTA  
AATGTTATTACTTGTAAATAAAGTCTATTTTTCTCCCGTG

3601/6881  
**FIGURE 3319**

MTMLLLYHSTMSKSPRDWEQFEYKIQAE LAVILKFVLDHEDGLNLNEDLENFLQKAPVPSTCSSTFPEELSPPS  
HQAKREIRFLELQKVASSSSGNNFLSGSPASPMGDILQTPQFQMRRLKKQLADERSNRDELELELAENRKLLTEK  
DAQIAMMQQRIDRLALLNEKQAASPLEPKELEELRDKNESLTMRLHETLKQCQDLKTEKSQMDRKINQLSEENG  
LSFKLREFASHLQQLDALNELTEEHKATQEWLEKQAQLEKELSAALQDKKCLEEKNEILQGKLSQLEEHLSQL  
QDNPPQEKGEVLGDVQLLETILKQEAATLAANNTQLQARVEMLETERGQQEAKLLAERGHFEEKQQLSSLITDLQ  
SSISNLSQAKEELEQASQAHGARLTAQVASLTSELTTLNATIQQQDQELAGLKQQAQKQQAQLAQTLOQQEQASQ  
GLRHQVEQLSSSLKQKEQQLKEVAEKQEAATRODHAQQLATAAEEREASLRERDAALKQLEALEKEKAACLEILQQ  
QLQVANEARDSAQTSVTQAQREKAELSRKVEELQACVETARQEQHEAQAQVAEELQLRSEQQKATEKERVQEK  
DQLQEQQLALKEESLKVTKGSLEEEKRRAADALEEQRCISELKAETRSLVEQHKRERKELEERAGRKGLEARLQ  
QLGEAHQAETEVLRRELAEMAAQHTAESECEQLVKEVAAWRERYEDSQEEAQYGAMFQEQMLTKEECEKARQ  
ELQEAKEKVAGIESHSELQISRQONELAEHLANLALQVQVEKVRQKLADDLSTLOEKMAATSKEVARLET  
VRKAGEQQETASRELVKEPARAGDRQPEWLEEQQGRQFCSTQAAQAMEREAEQMGNELERLRAALMESQGGQQE  
ERGQQEREVARLTQERGRAQADLALKAARAELEMRLQNALNEQRFVATLQEAALAHALTEKEGKDQELAKLRGL  
EAAQIKELEELRQTVKQLKEQLAKKEKEHASGGAQSEAAGRTEPTGPKLEALRAEVSKLEQQCQKQEQEQADSLE  
RSLEAERASRAERDSALETLOQQLEEKQAEELGHSQSALASQRELAFAFRTKVDHKAEDDEWKAQVARGRQEAER  
KNSLISSLEEEVSILNRQVLEKEGESKELKRLVMAESEKSQKLEERLRLQLAETASNSARAAERSSALREEVQSL  
REEAEKQRVASENLQELTSQAEAEELGQELKAWQEKFFQKEQALSTLQLEHTSTQALVSELLPAKHLCCQLQA  
EQAAAEKRHREELEQSKQAAGGLRAELLRAQRELGELIPLRQKVAEQERTAQQLRAEKASYAEQLSMLKKAHGLL  
AEENRGLGERANLGRQFLEVELDQAREKYVQELAAVRADAETRLAEVQREASTARELEVMTAKYEGAKVKVLEE  
RQRFQEEERQKLTAQVEQLEVFQREQTKQVEELSKKLADSDQASKVQQKLVQQAQGGESQEAQRLQAQLNELQ  
AQLSQKEQAAEHYKLQMEKAKTHYDAKKQQNQELQEQRLSLEQLKENKELRAEAERLGHELQQAQGLKTKEAEQT  
CRHLTAQVRSLEAQVAHADQQLRDLGKFQVATDALKSREPQAKPQLDLSIDSLDLSCEEGTPLSITSKLPRTQPD  
GTSVPGEPASPIQRLPPKVESLESLYFTPIPARSQAPLESSLDSLGDVFLDSGRKTRRSARRRTTQIINITMTKK  
LDVEEPDSANSSFYSTRSAPASQASLRATSSSTQSLARLGSPDYGNSALLSLPGYRPTTRSSARRSQAGVSSGAPP  
GRNSFYMGTCDPEQLDDWNRIAELOQRNRVCPHLKTCYPLESRPSLSLGTITDEEMKTGDPQETLRRASMQP  
IQIAEGTGITTRQQRKRVSLEPHQPGTPESEKATSCFPRPMTPRDRHEGRKQSTTEAQKKAAPASTKQADRRQS  
MAFSILNTPKKLGNSLLRRGASKKALSASPNTSRSGTTRSPRIATTTASAATAAIGATPRAKGKAKH



3602/6881

**FIGURE 3320**

GGGGGGGAGCGGGGAAAAACAAAAGGAGACGAAGGACGCATGCGTTTGGTGAGTCCCGGATTCTGGTGGGTTCCTC  
CGCTCAGGCTGGGTGAAGCGCTTCCGGGTGCGCGCCGGCAGCAGCCTCCCGGCGCGATGAAGACACTGAGGCTCA  
GAGAGGTTAAGTGACTCAGCCAAGGTCAAACAGCTAGTAAGTGGTGGAGCCAGGACTCAAAGCCAGTCTAGGAGC  
**CATGT**CCACTTTGTTCCTCACTCTTCCCTCGTGTGACTGAGACTCTGTGGTTTAATCTGGATCGACCCTGTGT  
GGAAGAGACAGAGCTGCAGCAGCAGGAACAGCAGCATCAGGCCTGGCTCCAAAGCATCGCGGAGAAAAGACAACAA  
CCTGGTTCCTATTGGCAAGCCAGCCTCAGAGCACTATGATGACGAGGAAGAAGAGGATGATGAAGATGATGAGGA  
TAGTGAAGAGGACTCAGAGGATGATGAGGATATGCAGGACATGGACGAGATGAATGACTACAATGAGTCACCGGA  
TGATGGAGAGGTCAATGAGGTGGACATGGAAGGCAACGAACAGGATCAGGACCAGTGGATGATC**TAG**GTAGACAA  
GGCAGGGTGGCCTCAGGGAGATTCCAGGCCAGCCAAACTACCCTGCATCCCAACCCCAACCCCTGCCACAGA  
ACCAGCTGATGGCCCCAGTGCCTGAAAGTGCCCTTGGGCACCTCCTCAGCTGCTGCCAGGATCTGGTCTCTTTGG  
CCCCCTCCAGGCCATCAGTCTGCACTTGAAATCCCCAGGGCCTGAAACCTACTCCACCTTCTGGCCAGTACCTC  
ACCCCTTGATTGCCAGGTCTGGTCTAAGTTTCTTTAATAAAGACAAAGGAGTGATTTTCAAAAAAAAAAAAAAA  
AA

3603/6881

**FIGURE 3321**

MSTLFPSLFPRVTETLWFNLDRPCVEETELQQQEQQHQAQLQSIAEKDNNLVPIGKPASEHYDDEEEDEDED  
SEEDSEDEDMDMDMDNDYNESPDGGEVNEVDMEGNEQDQDQWMI

3604/6881  
**FIGURE 3322A**

CTGAGGCCGGCGCTGCAGGCAGCGGGCGGCTGCGCGGTGAACGAGGCGGCCCTGCGCGGGGAGTGCTGAGTCCCGA  
TCCCCGGCTCTGTCCGGCCACGGATCCTCAAGCCCGGGCCCCGGGCCCGCCAGCCTCAGCCCTGAGCGTCT  
CGGGGCGGATGGCGCGGGGCGGCGGGGCGGGCGGTGCTGAGCCCTGCGCGGGCCATGCGCTCGGCTGCGGGG  
GCGGGGCGGGGGGCGCCCTGGGCAGCCAGGCCCCCTCTGGTACCACCGGACCTGAGCCGGGCGGCGCGGA  
GGAGCTGCTGGCCCGGGCGGGCGCGATGGCAGCTTCTGGTCCGAGACAGCGAGAGCGTGGCGGGGCGCTTCGC  
GCTCTGCGTCTGTATCAGAAGCATGTGCACAGTATCGCATTCTGCCTGATGGAGAAGATTCTTGCTGTGCA  
GACCTCGCAGGGTGTGCTGTGCGCCGCTTCCAGACCCTGGGTGAGCTCATCGGCTGTACGCCAGCCCAACCA  
GGGCTTGTGTGCGCCCTGCTTCTTCTGTAGAGGTGAGCGAGAGCCGACCCACCGGATGACCGGGATGCCTC  
AGATGGGGAGGATGAGAAGCCCCGCTGCCCCGCGCTCTGGCTCCACCAGCATTTCTGCCCCACTGGGCCCAG  
CAGTCCCCTGCCAGCTCCTGAGACTCCACAGCTCCAGCTGCTGAGAGTGCTCCCAATGGGCTGAGCACCCTC  
GCACGACTACCTGAAAGGCAGCTATGGGCTGGACCTGGAAGCTGTGAGGGGTGGAGCCAGCCACCTGCCCCACT  
CACCCGTACCCTCGCTACCTCATGCCGGAGGTGCACAGTGAGGTGGACAAGTCTGTGTCAGGCTGGAGATCCT  
GTCCAAGGTGTTTGACCAGCAGAGCTCGCCCATGGTGACCCGCTTTTGAGCAGCAGAACCTGCCACAGACAGG  
GGAGCAGGAAGTAGAGAGCCTGGTGCTGAAGCTGTGAGTGTAAAGGACTTCTGTGAGGCATCCAGAAGAAGGC  
CCTGAAGGCCCTACAGGACATGAGCTCCACAGCACCCCGAGTCCGAGCCATCCACAGTAAGGCCAAGACCAT  
CCCCGTGCAGGCCTTTGAGGTGAAGCTAGATGTGACCTGGGTGACCTGACCAAGATTGGGAAGTCACAGAAGT  
CACGCTGAGCGTGGATGTGGAGGGTGGGCGGCTGGTGCTGCTGCGGAGACAGCGGGACTCCCAGGAGGACTGGAC  
CACCTTACGCACGACCGCATCCGCCAGCTCATTAGTCCAGCGTGTCCAGAACAAGCTGGGTGTGTGTTGA  
GAAGGAGAAGGACCGGACTCAGCGCAAGGACTTCATCTTTGTGCTGCGCGGAAGCGGGAGGCCTTCTGCCAGCT  
GTTGCAGCTCATGAAGAACAAGCACTCCAAGCAGGACGAGCCGACATGATCTCAGTCTTCATAGGCACCTGGAA  
CATGGGAAGTGTACCACCTCCAAAAACGTGACATCCTGGTTACATCGAAGGGTCTGGGGAAGACCTGGACGA  
GGTCACAGTGACCATACCCATGACATCTATGTCTTTGGGACCCAGGAGAAGTCTAGTGGGCGACCGCGAGTGGCT  
GGACCTACTGCGCGGGGGCTCAAGGAGCTTACGGATCTGGATTACCGCCCGATTGCCATGCAATCACTGTGGAA  
TATCAAGGTGGCAGTGCTGGTCAAGCCAGAGCAGAGAACCGTATCAGCCATGTCAGTACGTCCAGTGTGAAGAC  
TGGCATCGCCAACACCTTGGGGAACAAGGGGGCTGTGGGCGTCTCCTTCATGTTTAAATGGCACCTCATTGGCTT  
TGTGAATTGTACCTCACCTCGGGAATGAGAAGACGGCTCGGAGGAACCAAACTACTTGGACATCCTGCGGCT  
GCTCTGCTGGGCGACCGGCAGCTCAATGCCTTTGACATCTCTCTGCGTTTACACACCTCTTCTGGTTTGGGGA  
CCTCAACTACCGCTGGACATGGATATCCAGGAGATCCTGAAGTACATCAGCAGGAAGAGTTTGGCCCTCCT  
CAGGGTGGACAGCTCAACCTGGAGCGGGAGAAGCAAGGTCTTCTTCGATTAGTGAGGAGGAGATCTCCTT  
CCCACCCACCTACCGCTATGAGCGGGGTTCGCGGACACATATGCCTGGCACAAGCAGAAGCCAAGTGGGTCCG  
GACCAATGTGCCCTCATGGTGTGACCGGATTCTGTGGAATCCTACCCTGAAACTCACATCATCTGCAATTCTTA  
TGTTGCACTGATGACATCGTCACCGGACCATCCCCCGTGTGTTGGGACATTTGAGGTTGGAGTTACCTCCCA  
GTTTATCTCCAAGAAAGGGCTCTCAAAGACTTCAGACCAGGCCTACATTGAGTTTGAGAGCATCGAGGCCATTGT  
GAAGACAGCCAGCCGACCAAGTTCTTCATCGAGTTTACTCTACCTGCCTGGAGGAATACAAGAAGAGCTTGA  
GAATGATGCCAGAGCAGTGACAACATCAACTTCTCAAAGTGCAGTGGTCTTCACGCCAGCTGCCACGCTCAA  
ACCAATTCTGGCTGATATCGAGTACCTGCAGGACCAGCACCTCCTGCTCACAGTCAAGTCCATGGATGGCTATGA  
ATCCTATGGGGAGTGTGTGGTTGCACTCAAATCCATGATCGGCAGCACGGCCCAACAGTTCTTGACCTTCTATC  
CCACCGTGGCGAGGAGACAGGCAATATCAGAGGCTCCATGAAGGTGCGGGTGCCACGGAGCGCCTGGGCACCCG  
TGAGCGGCTCTACGAGTGGATCAGCATTGATAAGGATGAGGCAGGAGCAAAGAGCAAAGCCCCCTCTGTGTCCCG  
AGGGAGCCAGGAGCCAGGTGAGGAGCCGCAAGCCAGCCTTACAGAGGCCTCCTGCCCCGCTCTCCAGGTTATT  
TGAAGAACCAGAGAAACCGCCACCAACGGGGAGGCCCCAGCCCCACCCGAGCAGCTCCCCGGGAGGAGCCCTT  
GACCCCCAGGTTGAAGCCAGAGGGAGCTCCTGAACCAGAAGGGGTGGCGGCCCCCCCCACCAAGAACAGCTTCAA  
TAACCCTGCCTACTACGTCTTGAAGGGGTCCCGCACCAGCTGCTGCCCCGGAGCCACCTCGCTGCCAGGGC  
CCCTGTCCCATCTGCCACCAAGAACAAAGTGGCCATTACAGTGCCTGCTCCACAGCTTGGGACCAACGGCACCC  
TCGTGTGGGAGAGGGGAGTTCTTACAGATGAGGAGTCTGGAGGCACACTGCCCCCTCCAGACTTCCACCTCCACC  
ACTGCCGGAAGTACGCCATCTTCTGCCCCCAGCCTGGATCCTTTACAGGGCCAGTGGTCCGGGGCGGTGGTGG  
GGCTGAGGCCCCGTGGCCACCACTCCCAAGGCCATCCAAGGCCTCCACTGCCCCCAGGCCCCCTACACAGCCAG  
CACTTCTCTGGGGAGTGGGCAGTGGGGATGACCGGTCTGCTCGGTGCTGCAGATGGCCAAGACGCTGAGCGA

3605/6881  
**FIGURE 3322B**

GGTGGACTATGCCCCTGCTGGGCCTGCACGCTCAGCGCTCCTCCCAGGCCCCCTGGAGCTGCAGCCCCCGGGG  
ACTGCCCTCGGACTATGGCCGGCCCCCTCAGCTTCCCTCCACCCCGCATCCGGGAGAGCATCCAGGAAGACCTGGC  
AGAGGAGGCTCCGTGCCTGCAGGGCGGGCGGGCCAGCGGGCTGGGCGAGGCAGGCATGAGTGCCTGGCTGCGGGC  
CATCGGCTTGGAGCGCTATGAGGAGGGCCTGGTGCATAATGGCTGGGACGACCTGGAGTTTCTCAGTGACATCAC  
CGAGGAGGACTTGGAGGAGGCTGGGGTGCAGGACCCGGCTCACAAGCGCCTCCTTCTGGACACCCTGCAGCTCAG  
CAAGTGAATAGCGGAGGCACCACGAAGCTGTGAACTCAGAGCCCCTCCCTGCTACCAAGGCCAGCTATGGCCCCA  
GGGTTGAAAAGTTATGAGGGTCAGGGCAGTATCTCTCTGCCTATTTATTGGGGTGCCTATTTATTGGGGATCTGC  
ATTCCCCGCTGCCAATCATTGCAATGCCCTAATTAGGGCATCCTGCCCCCTCGCCTTTTAGGCTCAGGACGGAA  
GGTCAGTTGCCATGTTACCGAGGACCCTGGTTACTCTGGTGTCTCCTGTTTTACTGGACCCCGCCTCCCAGCC  
CCAGGGGTGCCTGTGGGGGTCCATTGCGGTACGTCTGGGCCCCCACTTTCACCAGTTTCTGCGGCCTTCCACCGG  
GCCTGAACCACAGCGGAGGAGCTCCGCTAAGACCTCCCCACCCCGCTGGGGGTGGGGCGGGTGTCCGTCCGGA  
AATGAAGGAATAGCCCCAGGACCGGGCTGGGGTTTATTTAACTGTTCTGTGTGGGTCTGGGGAGGGAGAGCACC  
TTAATATTATTGGGGTTGGTTGGGGTGGGGCAGGATCTCAGCCATAAAGTGCCAGTTTGCTTAGTTCTCACTGTC  
TCCTGGTCTGTGCTGCCCTGCTCTGGGGATGCACGGCGGCAGGGTGGGGGAGGGAGGTTTCTCGCAGGTCTCAGC  
CCGGGACAGGGTCTTGCAAGCAGCCTCCTGGGCAGTCGTAAGGGTTGCGGCGTGATGTCTTCAATAAATTAAGTT  
TTATTTGGAAAA

3606/6881  
**FIGURE 3323**

MASACGAPGPGGALGSQAPSWYHRDLSRAAAEELLARAGRDGSFLVRDSESVAGAFALCVLYQKHVHTYRILPDG  
EDFLAVQTSQGVFVRRFQTLGELIGLYAQPNQGLVCALLLPVEGEREPDPPDDRDASDGEDEKPPLPFRSGSTSI  
SAPTGPSSPLPAPETPTAPAAESAPNGLSTVSHDYLGKSYGLDLEAVRGGASHLPHLTRTLATSCRRLHSEVDKV  
LSGLEILSKVFDQSSPMVTRLLQQQNLPTGEQELESVLKLSVLKDFLSGIQKKALKALQDMSSTAPPAPQPS  
TRKAKTIPVQAFEVKLDVTLGDLTKIGKSQKFTLSVDVEGGRLVLLRRQRDSQEDWTTFTHDIRIQLIKSQRVQN  
KLGVVFEKEKDRTQRKDFIFVSARKREAFQQLQLMKNKHSKQDEPDMISVFIGTWNMGSVPPPKNVTISWFTSKG  
LGKTLDEVTVTIPHDIYVFGTQENSVGDREWLDLLRGGLKELTDLDYRPIAMQSLWNIKVAVLVKPEHENRISHV  
STSSVKTGIANTLGNGGAVGVSMFNGTSFGFVNCHLTSGNEKTARRNQNYLDILRLLSLGDRLNAFDISLRFT  
HLFWFGDLNYRLDMDIQEILNYISRKEFEPLLRVDQLNLEREKHKVFLRFSEEEISFPPTYRYERGSRDITYAWHK  
QKPTGVRTNVPSWCDRIWKSYPETHIICNSYGCTDDIVTSDHSPVFGTFEVGVT SQFISKKGLSKTSDQAYIEF  
ESIEAIVKTASRTKFFIEFYSTCLEEYKKSFENDAQSSDNINFLKVQWSSRQLPTLKPILADIEYLQDQHLLLT  
KSMDGYESYGEVCVVALKSMIGSTAQQFLTFLSHRGEETGNIRGSMKVRVPTEGLTRERLYEWISIDKDEAGAKS  
KAPSVSRGSQEPRSGSRKPAFTEASCPLSRLFEEPEKPPPTGRPPAPPRAAPREEPLTPRLKPEGAPEPEGVAAP  
PPKNSFNNPAYYVLEGVPHQLLPPEPPSPARAPVPSATKNKVAITVPAPQLGHHRHPRVGEGBSSDEESGGTLPP  
PDFPPPLPDSAIPLPPSLDPLPGPVVRGRGGAEARGPPPKAHPRPPLPPGPSPASTFLGEVGSDDRSCSVLQ  
MAKTLSEVDYAPAGPARSALLPGPLELQPPRGLPSDYGRPLSFPPPRIRESIQEDLAEAPCLQGGRASGLGEAG  
MSAWLRAIGLERYEEGLVHNGWDDLEFLSDITEEDLEEAGVQDPAHKRLLLDTLQLSK

3607/6881  
**FIGURE 3324**

CTTGCGTTGCACCCGGGCTGAGTGGGCCGCGACGGGGCGGGCGGACTCTCGGGCGCTCAGAGCTGGCCTCGGGT  
CCTCGGAGCCTGGCGCTCGAACCTCCCTTCCGACCTCCACCCGGACCCCGACCCCGACCCGGCCTGGCCCGGCC  
CCGCCCCCGCCCCCGGGCCGATGGACTACTCCTACCTCAATTGCTACGACTCGTGCGTGGCGGCCATGGAGGCG  
TCCGCCTACGGCGACTTTGGCGCCTGCAGCCAGCCGGCGGCTTCCAATACAGCCCCCTGCGGCCGCTTTCCCC  
GCGGCAGGGCCGCCCTGCCCCGCGCTCGGCTCCTCCAATGCGCACTTGGCGCCCTACGCGACCACAGCCCGCG  
CCCTACTCGGCAGTGCCCTACAAGTTCTTCCCAGAGCCATCCGGCCTGCACGAGAAGCGCAAGCAGCGGCGCATC  
CGCACACGTTTACCAGCGCGCAGCTCAAGGAGCTGGAGCGCGTTTTTCGCTGAGACCCACTACCCCGACATTTAC  
ACGCGTGAGGAGCTGGCGCTCAAGATCGACCTCACTGAGGCTCGCGTGCAGGTCTGGTTCCAGAACCGCCGGGCC  
AAGTTCCGCAAACAGGAGCGCGCGGCCAGCGCCAAGGGCGCGGCGGGCGCGGGCGGCCAAAAAGGGCGAGGCG  
CGCTGCTCCTCCGAGGACGACGATTCCAAGGAGTCCACGTGCAGCCCCACGCCCAGATAGCACCGCCTCGCTGCCG  
CCGCCGCTGCGCCCGGCTGGCCAGCCCGCGCCTGAGCCCCAGCCCGCTGCCCGTGCCTACTGGGCTCCGGGCCG  
GGACCTGGGCCGGGGCCACAGCCGCTCAAGGGCGCACTGTGGGCCGGTGTGGCGGGCGGTGGGGCGGCGGGCCT  
GGCGCGGGAGCGGCCGAATACTTAAGGCTTGGCAGCGGCGGAGTCCGGCCCCGGGCCCTTCTCCGGGGTTCTG  
TCCTCCTTACCGGAAGCCCGGCCCGCCCTGAAGACCAATCTCTTCTAG

3608/6881  
**FIGURE 3325**

GATAACAAGACCTCTGCCAGAAGAACCATGGCTTTGGAAGGCGGAGTTCAGGCTGAGGAGATGGGTGCGGTCCTC  
AGTGAGCCCCCTGCCTCCCTGAACATAGGAAACCCACCTGGGCAGCCATGGAATGGGACAATGGCACAGGCCAGGC  
TCTGGGCTTGCCACCCACCACCTGTGTCTACCGCGAGAACTTCAAGCAACTGCTGCTGCCACCTGTGTATTTCGGC  
GGTGCTGGCGGCTGGCCTGCCGCTGAACATCTGTGTCTATTACCCAGATCTGCACGTCCCGCCGGGCCCTGACCCG  
CACGGCCGTGTACACCCTAAACCTTGCTCTGGCTGACCTGCTATATGCCTGCTCCCTGCCCCGTCTCATCTACAA  
CTATGCCCCAAGGTGATCACTGGCCCTTTGGCGACTTCGCCTGCCGCTGGTCCGCTTCCTCTTCTATGCCAACCT  
GCACGGCAGCATCCTCTTCTCACCTGCATCAGCTTCCAGCGCTACCTGGGCATCTGCCACCCGCTGGCCCCCTG  
GCACAAACGTGGGGGCCGCGGGCTGCCTGGCTAGTGTGTGTAGCCGTGTGGCTGGCCGTGACAACCCAGTGCCT  
GCCCACAGCCATCTTCGCTGCCACAGGCATCCAGCGTAACCGCACTGTCTGCTATGACCTCAGCCCGCTGCCCT  
GGCCACCCACTATATGCCCTATGGCATGGCTCTCACTGTCTATCGGCTTCCTGCTGCCCTTTGCTGCCCTGCTGGC  
CTGCTACTGTCTCCTGGCCTGCCGCTGTGCCGCCAGGATGGCCCGGCAGAGCCTGTGGCCCAGGAGCGGCGTGG  
CAAGGCGGCCCGCATGGCCGTGGTGGTGGCTGCTGCCTTTGCCATCAGCTTCCTGCCTTTTACATCACCAAGAC  
AGCCTACCTGGCAGTGCCTCGACGCCGGGCGTCCCCTGCACTGTATTGGAGGCCTTTGCAGCGGCCTACAAAGG  
CACGCGGCCGTTTGCCAGTGCCAACAGCGTGTGGACCCCATCCTCTTCTACTTCACCCAGAAGAAGTTCGGCCG  
GCGACCACATGAGCTCCTACAGAACTCACAGCCAAATGGCAGAGGCAGGGTCGCTGAGTCTCCAGGTCTTGGG  
CAGCCTTCATATTTGCCATTGTGTCCGGGGCACCAGGAGCCCCACCAACCCCAAACCATGCGGAGAATTAGAGTT  
CAGCTCAGCTGGGCATGGAGTTAAGATCCCTCACAGGACCCAGAAGCTCACCAAAAATATTTCTCAGCCCCTT  
CTCTGGCCCAGACCCTGTGGGCATGGAGATGGACAGACCTGGGCCTGGCTCTTGAGAGGTCCAGTCAGCCATGG  
AGAGCTGGGGAAACCACATTAAGGTGCTCACAAAAATACAGTGTGACGTGTACTGTCA

3609/6881  
FIGURE 3326

CGCGTCCTGTCCCGGCGCCTTCCGCGCACCGGCCACCGCCAGTCTCCGAGCCCCGTGACCTGCAGGTCTCCGGC  
CGCGACTCCGGGCGCGCCCTGCGTGGTGGCTGTCCGGGGGCGCGCGGGGAAGCAGCGGAACCTTGCAGGTGTAGGG  
GCCGGCGGGGCGCGGAGCGGTCCCGGCGCGGGAACTTGGACCGAGACCAGGCCGGCGACCAACAGGGGCTGA  
GGATGAAGCCAAGTCTGCTGTGCCGGCCCTGTCTGCTTCTTATGCTGCTGCCCTGGCTCTCGCCACCTTGA  
CATCAACAACCTTTGGCAGTGCCACCTGGGGAGGAGCCCGACCTGGACCCAGGGCAGGGCACATTATGCAGGC  
CCTGCCCCCAGGCACCTTCTCAGCTGCATGGGGCTCCAGCCCATGCCAGCCCCATGCCGTTGCAGCCTTTGGA  
GGAGGCTGGAGGCCAGGTGGGCATGGCAACTCGAGATACACTCTGTGGAGACTGCTGGCTGGGTGGTTTGGGC  
CTTGGGGGGTTCCCCGCGTTCCATGTCAACCATGTTCTGGGCACCTCTGGGTACTCATGGCTGTGATGAGTGGG  
GGCGGCGGGCCCCGACGTGGCGTGGAGGTGGCAGCAGGGGCCAGCAGCGGTGGTGAGACACGGCAGCCTGGGAACG  
GCACCCGGGCAGGTGGCCAGAGGAGACAGCCGCCAGTACGCGGTTCATCGCCATCGTCCCTGTCTTCTGCCTCA  
TGGGGCTGTTGGGCATCCTGGTGTGCAACCTCCTCAAGCGAAGGGCTACCACTGCACGGCGCACAAGGAGGTG  
GGCCCGGCCCTGGAGGTGGAGGCAGTGGAAATCAACCTGCCTACCGGACTGAGGATGCCAATGAGGACACCATG  
GGGTCTGGTGCCTTGATCACAGAGAAGAAAGAGAATGTGCGGCCCTGGAGGAGCTGCTGAAAGAGTACCACA  
GCAACAGCTGGTGCAGACGAGCCACAGGCCTGTGTCAAGCTGCCGCCAGCGCCCCGAACGTGCCACACATCT  
GCCCGCACCGCCACCATCTCCACACCGTGCAGGGCCTGGCTCGCTCTCTGGCCCCCTGCTGCTCCCGCTGTAGCC  
AGAAGAAGTGGCCCCGAGGTGCTGTGTCCCTGAGGCTGTAGCCGCCACTACTCCTGTTCCCGACCTTCTGCCTA  
ACCCGACCAAGGTTCCCAAGGCCGGGGCCAAGGCAGGGCGTCAGGGCGAGATCACCATCTTGTCTGTGGGCAGGT  
TCCGCGTGGCTCGAATTCTGAGCAGCGGACAAGTTCAATGGTGTCTGAGGTGAAGACCATCACGGAGGCTGGGC  
CCTCGTGGGGTGATCTCCCTGACTCCCCACAGCCTGGCCTCCCCCTGAGCAGCAGGCCCTGTAGGAAGTGGCG  
GAAGCCGTACAAAGTGGCTGAAGCCCCAGCAGAGAACAAGGCCGAGGAGAACCCTATGTGGTCCGGCTAAGTG  
AGAGCAACCTGGTCACTTGAGGGGGCGGTCTAGTCTAAGGACACTGCGGCCCTGCCCTGGGAGGTTCCGAAGGCTT  
CCTGGAGGAGGTGGAGCTGCAGCTGGGACTGTGAGGACCGAGAAGCAATGGCCCAGCAGACGAGACAGCAAAGAC  
CAAGGCCTGGAGGTGGGAGCGTCTGCCCCAGTGAGGAGGCAGGTGGCCGGCGGGCACTGTGTACAGGAGCAGGCT  
GAGCCCCGCCCTGGCCCTGCTGCCATGTTGCTCCCCTGAAGGATGCCCCGACCCCCGTGCTGCTGCTGGCTGGA  
TCCTAGGAGCCCACGGGATTCTCTGTATCATCAGAGGCTGGGCTTGGCAGAGGGGAGGGGCTGTGCCCGTACC  
CCTGGCCCCATTCTTGGTAATTAGCCACACCTTGCCTCTKTACAGGGCCCTAAGARCAGATGTKCGTYCCCT  
CCTYTTYCAGCAGGTCTATAAAGGGAAAGGGTAGCAGAAAAGTCTGGGCTARGAGAGTGAGTCCCTGGGTTCT  
AATCTTGGGCACATCTGTGSCCATCRCTGGGTCCATTTTTTCTSACTGTGAAGTAAGGAGAGAMGTCTCAGTACCC  
AGGGCCTCTTCAGCTCTTTGTAGGTTCTGGGCTGGGTTGTGGGGGACTGGGGAGCTGGGCTTCTACCAATCCCCT  
CCCCAATTAGTAGCTTTTATCCAGCCCCCGTTTTTTGCTGCTTTCCAGGGCCTTCTGCCTTCAAGGCCCCCATG  
GGGCTTGTCCCATCCATGGCTCTGCCTACGGAAGGGGCTTAATGCATGTGCCTGCCCTCCCCAGCTGTTTTTA  
ATGAACTGAAAAAATAGACTTGATCCCGGCAGGACTGTGATACAGGCCCTAGCCCTGCCAGCCCAGCCCCAA  
GATCTCAGGAGCTTTAGGGAGAAGACTTGGTGGGGCTGGAGCACACCTTGGGCCTTCAGTGGTTTCTGTGTCCCT  
GTGGTGCCAGTGCTTCTGGGCAGTGCAGGCGGCTGCCAGGCCAGCCCTGACTTCCACTCTGGCTCAGCAACCTG  
GTTATTTATGTGGGGCCGTGCAGGCATGGGCCACTGCCTGTCCATCCTGTTTCTTATTTATTGAAACTCACC  
ATTGCCCTATCCTTGTGTCTCCACCCCTTCCATGTGTTGAATAATAAAAGGTGGGAAAGTGCAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



3610/6881  
**FIGURE 3327**

MKPSLLCRPLSCFLMLLPWPLATLTSTTLWQCPPGEEPDLDPGQGTLCRCPGPGTFSAAWGSSPCQPHARCSLWR  
RLEAQVGMATRDITLCGDCWPGWFGPWGVPVRVPCQPCSWAPLGTHGCDEWGRARRGVEVAAGASSGGETRQPGNG  
TRAGGPEETAQAQYAVIAIVPVFCLMGLLGILVCNLLKRKGYHCTAHKEVGPGPGGGSGINPAYRTEDANEDTIG  
VLVRLITEKKENAAALEELLKEYHSKQLVQTSHRPVSKLPPAPPNVPHICPHRHHLHTVQGLASLSGPCCSRCSQ  
KKWPEVLLSPEAVAATTPVPSLLPNPTRVPKAGAKAGRQGEITILSVGRFRVARIPEQRTSSMVSEVKTITEAGP  
SWGDLPSQPGLPPEQQALLGSGGSRTKWLKPPAENKAEENRYVVRLSESNLVI

3611/6881

**FIGURE 3328**

CTTTCCTCCTGCCGCCGAGTCGCGCGGAGGCGGAGGCTTGGGTGCGTTCAAGATTCAGGTTACCCGTAACCCA  
CTGCCATGGCCGAGGAAGGCATTGCTGCTGGAGGTGTAATGGAGGTTAATACTGCTTTACAAGAGGTGCTGAAGA  
CCGCCCTCATCCACGATGGCCTAGCACGTGGAATTCGCGAAGCTGCCAAAGTCTTAGACAAGCGCCAAGCCCATC  
TTTGTGTGCTTGCACTCCAACGTGATGAGCCTATGTATGTCAAGTTGGTGGAGGCCCTTTGTGCTGAACACCAAA  
TCAACCTAATTAAGGTTGATGACAACAAGAACTAGGAGAATGGGTAGGCCTCTGTAAAATTGACAGAGAGGGGA  
AACCCCATAAAGTGGTTGGTTACAGTTGTGTAGTAGTTAAGGACTATGGCAAGGAGTCTCAGGCCAAGGATGTCA  
TCGAAGAGTATTTCAAATGCAAGAAATGAAGAAATAAATCTTTGGCTCAC

3612/6881  
**FIGURE 3329**

GGCGGCGGCAGCTGTACAGGGCGGGAGAAGCGGTGGTAGCGGAGGCTGTAGTGGGGCTGGTGGTGCTTCCAACCTG  
CGGGACAGGAAGTGGCCGTAGCGGCTTGTTGGATAAGTGGAAGATAGATGATAAGCCTGTAAAAATTGACAAGTG  
GGATGGATCAGCTGTGAAAACTCTTTGGATGATTCTGCCAAAAAGGTACTTCTGGAAAAATACAAATATGTGGA  
GAATTTTGGTCTAATTGATGGTCGCCTCACCATCTGTACAATCTCCTGTTTCTTTGCCATAGTGGCTTTGATTTG  
GGATTATATGACCCCTTTCCAGAGTCCAAACCCGTTTTGGCTTTGTGTGTCATATCCTATTTTGTGATGATGGG  
GATTCTGACCATTATACCTCATATAAGGAGAAGAGCATCTTCTCGTGGCCACAGGAAAGATCCTACAGGAAT  
GGATCCTGATGATATTTGGCAGCTGTCTCCAGTCTTAAAGGTTTGATGACAAATACACCTTGAAGCTGACCTT  
CATCAGTGGGAGAACAAGCAGCAGCGGGAAGCCGAGTTCACAAAGTCCATTGCTAAGTTTTTTGACCACAGTGG  
GACACTGGTCATGGATGCATATGAGCCTGAAATATCCAGGCTCCATGACAGTCTTGCCATAGAAAGAAAAATAAA  
GTAGCCAATTCTAAAAGTAGCCCTCTTTCTCCIGGATCTTGCTGAATTAGTGGCTTGGGGGGTGGGGGAGATAAA  
AAGAACTTAAAATGGGTAAAGTAAGAAATGTTAAAAAGTCCCTGTTTTGTCTGAAATTTTAGTCTAATTCTGGGT  
AAATAGGATTTTCTGACACAGATATGAGAAGTTGTAGCTCTGATGTCTAGCTGTAGTCTCCTTGATCTGCTGATT  
GCATTATTTTAATTTGCTTTTCTGGGAAAGCAGTTTTGCTAAAAGCTGTACAGACTTTTTCTTTGTACCTAGCA  
GTACTTTATATAGTATAGCTTTGGGCCATGTAGCATTTTAAGACTCAATTTTAAAAAATTATTAATCTGTTGCTG  
ACTCTTAATTCCTATTTCAATATGTGTTTCTTGAAGAATTCAGGATACAACTTCTTGTGTATGACAGCTTTCCT  
TCACACACTATTTTGTGGGTGTGTATATCTGATTTGGGAAGAATTTAAAAAACACATAGCTTTTTAATTTGT  
TTGAAACAGACTTTCTGCCTGTTACATTTTGTCTTTTAAACCAATTAAAGAAGCCAATGGCATTTTAGTTTTATAT  
TGTGTTTTCCACTAGTATATCCCTGTTGATTTGTTTGTGCCTTTTATTAACTGCCATTTTCTAAAATTTTTTCA  
ATAAAAGGAAGGAAGATGTG

3613/6881  
**FIGURE 3330**

MHPFPESKPV LALCVISYFVMMGILTIYTSYKEKSIFLVAHRKDPTGMDPDDIWQLSSSLKRFDDKYTLKLTFFIS  
GRTKQQREAEFTKSIKFFDHSGTLVMDAYEPEISRLHDSLAIERKIK

3614/6881  
**FIGURE 3331**

GCGGAGCGCGGCGGCAAGATGGCAGTGCAAAATATCCAAGAAGAGGAAGTTGTCGCTGATGGCATCTTCAAAGCT  
GAACTGAATGAGTTTCTTACTCGGGAGCTGGCTGAAGATGGCTACTCTGGAGTTGAGGTGCGAGTTACACCAACC  
AGGACAGAAATCATTATCTTAGCCACCAGAACACAGAATGTTCTTGGTGAGAAGGGCCGGCGGATTTCGGGAAGT  
ACTGCTGTAGTTCAGAAGAGGTTTGGCTTTCCAGAGGGCAGTGTAGAGCTTTATGCTGAAAAGGTGGCCACTAGA  
GGTCTGTGTGCCATTGCCCAGGCAGAGTCTCTGCGTTACAACTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGC  
TATGGTGTGCTGCGGTTTCATCATGGAGAGTGGGGCCAAAGGCTGCGAGGTTGTGGTGTCTGGGAACTCCGAGGA  
CAGAGGGCTAAATCCATGAAGTTTGTGGATGGCCTGATGATCCACAGCGGAGACCCTGTAACTACTACGTTGAC  
ACTGCTGTGCGCCACGTGTTGCTCAGACAGGGTGTGCTGGGCATCAAGGTGAAGATCATGCTGCCCTGGGACCCA  
ACTGGTAAGATTGGCCCTAAGAAGCCCCTGCCTGACCACGTGAGCATTGTGGAACCCAAAGATGAGATACTGCCC  
ACCACCCCATCTCAGAACAGAAGGGTGGGAAGCCAGAGCCGCTGCCATGCCCCAGCCAGTCCCCACAGCATAA  
  
CAGGGTCTCCTTGGCAGCTGTATTCTGGAGTCTGGATGTTGCTCTCTAAAGACCTTTAATAAAATTTGTACAAA  
GACAAAAAAAAAAAAA

3615/6881  
**FIGURE 3332**

MAVQISKRRKFVADGIFKAELNEFLTRELAEDGYSGVEVRVTPTRTEIIILATRTQNVLGEKGRRIRELTAVVQK  
RFGFPEGSVELYAEKVATRGLCAIAQAESLRYKLLGGLAVRRACYGVLRFIMESGAKGCEVVVSGKLRGQRAKSM  
KFVDGLMIHSGDPVNYVDTAVRHVLLRQGVLGKVKIMLPWDPTGKIGPKKPLPDHVSIVEPKDEILPTTPISE  
QKGGKPEPPAMPQPVPTA

3616/6881  
**FIGURE 3333**

GTCGCGGCTCGAGAGCGAGAGTCACGTCCCGGCGCTAGCCCAGCCCGACCCAGGCCACCCTGGTGGTGCACGCAAAC  
CACTTCCTGGCCATGCGCTCCCTCCTGCTTCTCAGCGCCTTCTGCCTCCTGGAGGCGGCCCTGGCCGCCGAGGTG  
AAGAAACCTGCAGCCGAGCAGCTCCTGGCACTGCGGAGAAGTTGAGCCCCAAGGCGGCCACGCTTGCCGAGCGC  
AGCGCCGGCCTGGCCTTCAGCTTGTACCAGGCCATGGCCAAGGACCAGGCAGTGGAGAACATCCTGGTGTACCCC  
GTGGTGGTGGCCTCGTCGCTGGGGCTCGTGTGCTGGGCGGCAAGGCGACCACGGCGTCGAGGCCAAGGCAGTG  
CTGAGCGCCGAGCAGCTGCGCGACGAGGAGGTGCACGCCGGCCTGGGCGAGCTGCTGCGCTCACTCAGCAACTCC  
ACGGCGCGCAACGTGACCTGGAAGCTGGGCAGCCGACTGTACGGACCCAGCTCAGTGAGCTTCGCTGATGACTTC  
GTGCGCAGCAGCAAGCAGCACTACAAGTGCAGGACTCCAAGATCAACTTCCGCGACAAGCGCAGGCCGCTGCAG  
TCCATCAACGAGTGGGCCGCGCAGACCACCGACGGCAAGCTGCCCCGAGGTACCAAGGACGTGGAGCGCACGGAC  
GGCGCCCTGTTAGTCAACGCCATGTTCTTCAAGCCACACTGGGATGAGAAATCCACCACAAGATGGTGGACAAC  
CGTGGCTTCATGGTGACTCGGTCTTATACCGTGGGTGTATGATGATGCACCGGACAGGCCTCTACAATACTAC  
GACGACGAGAAGGAAAAGCTGCAATCGTGGAGATGCCCCGGGCCACAAGCTCTCCAGCCTCATCATCTCATG  
CCCCATCAGCTGGAGCCTCTCGAGCGCCTTGAAAAGCTGCTAACCAGAGCAGCTGAAGATCTGGATGGGGAAG  
ATGCAGAAGAAGGCTGTTGCCATCTCCTTGCCCAAGGGTGTGGTGGAGGTGACCCATGACCTGCAGAAACACCTG  
GCTGGGCTGGGCCTGACTGAGGCCATTGACAAGAACAAGGCCGACTTGTACGCATGTCAGGCAAGAAGGACCTG  
TACCTGGCCAGCGTGTTCACGCCACCGCCTTTGAGTTGGACACAGATGGCAACCCCTTTGACCAGGACATCTAC  
GGGCGCGAGGAGCTGCGCAGCCCCAAGCTGTTCTACGCCGACCACCCCTTCATCTCTCTAGTGGGGACACCCAA  
AGCGGCTCCCTGCTATTTCATTGGGCGCCTGGTCCGGCCTAAGGGTGACAAGATGCGAGACGAGTTATAGGGCCTC  
AGGGTGCACACAGGATGGCAGGAGGCATCCAAAGGCTCCTGAGACACATGGGTGCTATTGGGGTTGGGGGGGAGG  
TGAGGTACCAGCCTTGATACTCCATGGGGTGGGGGTGAAAAGCAGACCGGGTTCCTGTGCTGAGCGGAC  
CTTCCCAGCTAGAATTCACCTCACTTGGACATGGGCCCCAGATACCATGATGCTGAGCCCGGAAACTCCACATCC  
TGTGGGACCTGGGCCATAGTCATTCTGCCTGCCCTGAAAGTCCCAGATCAAGCCTGCCTCAATCAGTATTTCATAT  
TTATAGCCAGGTACCTTCTCACCTGTGAGACCAAATTGAGCTAGGGGGGTGAGCCAGCCCTCTTCTGACACTAAA  
ACACCTCAGCTGCCTCCCCAGCTCTATCCCAACCTCTCCCACTATAAACTAGGTGCTGCAGCCCCCTGGGACCA  
GGCACCCCCAGAATGACCTGGCCGAGTGAGGCGGATTGAGAAGGAGCTCCAGGAGGGGCTTCTGGGCAGACTC  
TGGTCAAGAAGCATCGTGTCTGGCGTTGTGGGGATGAACCTTTTTGTTTTGTTTCTTCTTTTTTAGTTCTTCAA  
GATAGGGAGGGAAGGGGAACATGAGCCTTTGTTGCTATCAATCCAAGAACTTATTGTACATTTTTTTTTTCAA  
TAAACTTTTCCAATGACATT

3617/6881  
**FIGURE 3334**

MRSLLLLSAFCLLEAALAAEVKKPAAAAAPGTAEKLSPKAATLAERSAGLAFSLYQAMAKDQAVENILVSPVVVA  
SSLGLVSLGGKATTASQAKAVLSAEQLRDEEVHAGLGELLRSLSNSTARNVTWKLGSRLYGPSSVSFADDFVRSS  
KQHYNCEHSKINFRDKRRPLQSINEWAAQTTDGKLEPVTKDVERTDGALLVNAMFFKPHWDEKFHHKMVDNRGFM  
VTRSYTVGVMMHRTGLYNYDDKEKQLQIVEMPLAHKLSSLIILMPHHVEPLERLEKLLTKEQLKIWMGKMQKK  
AVAISLPKGVVEVTHDLQKHLAGLGLTEAIDKNKADLSRMSGKKDLYLASVFHATAFELDTDGNPFDQDIYGREE  
LRSPKLFYADHFFIFLVRDTQSGSILFIGRLVRPKGDKMRDEL



3618/6881  
**FIGURE 3335A**

TTGATTGGTATAGTGGGAACATTTGCTTTGGAGACAGATGAACCTGGATTCTGATCGTGACCCTGCTATTTTCTC  
CTTGTGTGACTTTGGAGCCATGAGACCCCAGATCCTGCTGCTCCTGGCCCTGCTGACCCTAGGCCTGGCTGCACA  
ACACCAAGACAAAGTGCCTGTAAAGATGGTGGACAAGAAGGTCTCGTGCCAGGTTCTGGGCCTGCTCCAGGTCCC  
CTCGGTGCTCCCGCCAGACACTGAGACCCTTGATCTATCTGGGAACCAGCTGCGGAGTATCCTGGCCTACCCCT  
GGGCTTCTACACAGCACTTCGTACCTGGACCTGAGCACCATGAGATCAGCTTCCTCCAGCCAGGAGCCTTCCA  
GGCCCTGACCCACCTGGAGCACCTCAGCCTGGCTCACAACCGGCTGGCGATGGCCACTGCGCTGAGTGCTGGTGG  
CCTGGGCCCCCTGCCACGCTGACCTCCCTGGACCTGTCTGGGAACAGCCTGTACAGCGGCCTGCTGGAGCGGCT  
GCTGGGGGAGGCACCCAGCCTGCATACCCTCTCACTGGCGGAGAACAGTCTGACTCGCCTACCCGCCACACCTT  
CCGGGACATGCCTGCGCTGGAGCAGCTTGACCTGCATAGCAACGTGCTGATGGACATCGAGGATGGCGCCTTCGA  
GGGTCTGCCCCGCTGACCCATCTCAACCTCTCCAGGAATTCCTCAGCTGCTCCGACTTCAGCCTCCAGCA  
GCTGCGGGTGCTAGACCTGAGCTGCAACAGCATCGAGGCCTTTCAGACGGCCTCCAGCCCCAGGCTGAGTTCCA  
GCTCACCTGGCTTGACCTGCGGGAGAACAACCTGCTCCATTTCCTCGACCTGGCCGCGCTCCCGAGACTCATCTA  
CCTGAACCTTGTTCAACAACCTCATCCGGCTCCCCACAGGGCCACCCAGGACAGCAAGGGCATCCACGCACCTTC  
CGAGGGCTGGTCAGCCCTGCCCTCTCAGCCCCCAGCGGGAATGCCAGCGGCCGCCCCCTTTCAGCTCTTGAA  
TCTGGATTGAGCTACAATGAGATTGAGCTCATCCCCGACAGCTTCTTGAGCACCTGACCTCCCTGTGCTTCCT  
GAACCTCAGCAGAACTGCTTGCGGACCTTTGAGGCCGCGCTTAGGCTCCCTGCCCTGCTGATGCTCCTTGA  
CTTAAGCCACAATGCCCTGGAGACACTGGAACCTGGGCGCCAGAGCCCTGGGGTCTCTGCGGACGTGCTCCTACA  
GGGCAATGCCCTGCGGGACCTGCCCCATACACCTTTGCCAATCTGGCCAGCCTGCAGCGGCTCAACCTGCAGGG  
GAACCGAGTCAGCCCTGTGGGGGGCCAGATGAGCCTGGCCCTCCGGCTGTGTGGCCTTCTCCGGCATCACCTC  
CCTCCGACGCTGAGCCTGGTGGATAATGAGATAGAGCTGCTCAGGGCAGGGGCCTTCCTCCACACCCCACTGAC  
TGAGCTGGACCTTTCTTCCAATCCTGGGCTGGAGGTGGCCACGGGGGCTTGGGAGCCTGGAGGCTCCTTGGA  
GGTCTGGCACTGCAGGGCAACGGGCTGATGGTCTGCAGGTGGACCTGCCCTGCTTCATCTGCCTCAAGCGGCT  
CAATCTTGCCGAGAACCGCTGAGCCACCTTCCCGCTGGACACAGGCTGTGTCACTGGAGGTGCTGGACCTGCG  
AAACAACAGCTTCAGCCTCCTGCCAGGCAGTGCCATGGGTGGCCTGGAGACCAGCCTCCGGCGCCTCTACCTGCA  
GGGGAATCCACTCAGCTGCTGCGGCAATGGCTGGCTGGCAGCCAGCTGCACCAGGGCCGTGTGGACGTGGACGC  
CACCCAGGACCTGATCTGCCGCTCAGCTCCCAGGAGGAGGTGTCCCTGAGCCACGTGCGTCTGAGGACTGTGA  
GAAGGGGGGACTGAAGAATCAACCTCATCATCTCCTCACCTTCATACTGGTCTCTGCCATCCTCTCACCAC  
GCTGGCCGCTGCTGCTGCGTCCGCGGCAGAGTTAACCAACAGTATAAAGCCTAAAGAAGCCGGGAGACACT  
CTAGGTCACTGGGGGAGCCTGAGGTACAGAGAAGAGTGAGGACTGACTCAAGGTACACAGTGATCCGGGATCCC  
AGAACTCTGGTCTCCAAATTACAGCCCAGGACACCTTCTCTGCGCCTGCTGCATCAGTGGGTGACCCCTTCC  
CGGGCTGCATTTGGGTCCAGCTGTGGAAGCCAGAAGTTGGGCGGTTTCAGGGACAGCCGAGAATAATGTTGACC  
TGTCAGATCAACAAATCTTCACTGAGCATGTATTTGTGCCACACCTGCTCTGGGCACTGGGAATGCTGGGAAA  
TGAGATACATTCCCGCCCTCAAGAATCTCCAGTCTGGTAGGAGAGAGTGTGTCAGAGCCACGTGGCCGCCACGC  
AGTGTGCTTAGGGCCTGAGGTGTGAAAGCCCAGGGCTCCAGAGCTCGGCAGGCCCGCTGGTTTGGTGGGTGAG  
TCCTGCCCCGCTGTGCCAGGTGAGGGAGGGCCAAAGCCAGGAGGATTGTCTGAGACATTTCCAAGCAGACTG  
TTTGTACGTCTCTGAGAATGACTTTCAGTCTCTCTGAAAATGAAAAGCTTAGGACCAGAAGAGAGAAATTGGAG  
CTGTACGAGTGTGTCTCGGATCTGGTGTGTTAGGTGGGCCACGGCGGCTCCAGCAGGGTCTGGTTAAGGGGTCC  
AGCCAGCACTGGACCATTCGCTCCTGCTCTGGACTTGCCCTCTCCCTTCTGGCACTCTCATGTTGCATACC  
CTGACCCAGTGTCTCTAAGCACCGTCCCTGCCAGCCCCACTTCTCCATCGCAGCCCCACCTTGGCTGCTGA  
GCCAGGAGCTAAACCTTAGATATCTGGTTCTGTTTGCACCCAGCTTGGCAGATGTGGATTGAATCCAAGCCT  
TGTGTCTGCCCCATGTGACAGCTCTATATTTATCCCCGTTTTATAAAAGAGGAACTGAAGTTCTGAAAATCT  
CCTTCCAGGGCCCCAGCTAACTAATGCCATAGGTGAGATTCAAACCTTCATCCTTCTGTCTCCAGGGCCTGATCT  
TTACCACTGCAGGGGCTGCAGGCCGTTAAGTGGACAGGAAGTGGCCCCACATAGCCCGAGCAGGGTCTGGAAGCA  
TCCTGTGCTGTGCACACCTGCTCTCTCCTCTCTCCAGGCAGGCAGCTGCAGGCGCTCTCCTCCTTCTCTGCGCTG  
TTTCCCTCCTCCCTTCCTTTCCACCTGGTGTGGGTCTCCTGTCTCTCTGTGCTCTTGCATTCTCTCATTCCC  
TTTTCTCTATTGAGCAGAGCCTGGAGTTGAGACTATGGAATCCAACCTCCCCATTGCACAGATGGGGAACTG  
AGGCTTAGGAAGAGAATGAACTTGTGGAGAGCTTATACAGAGCCTCTGGGGGAAAAAGAGCCCTTATTTGTGG  
GGTGAGATTGGGGGTGGACCAGAGTGATGCTCTCTCAGCTATCACATCACAAGATAATGCTGGCTCCAACT

3619/6881  
**FIGURE 3335B**

TCCTTTCTGTGCCTCATCATGCAAGGATCTTTTTTCCCTCTTACAAAAACAGGTAAAAAGCCTCACCCAGATGAC  
CCCCATCCCTCATACCATGGAGTCATGAGCTGTCTGGGAAGAATGGACGTGCTGGGACCAACTCAAGACCTTGTT  
TTGCTGTCTTCATCATCTTACCTGTGCTTGGCCACAGTCTGGCTCATGATGTGGGCTCAGTAATGTGCGAGAAA  
GTGAAAATGCCACTCTCTCCACCCCATTTTACAGAGGAGAACACCAAGGCCAGAGGAAGTTAAGGGAGAGTCAA  
TGGGCAGAGCCAGGGCTAGGCCCTGGTGGTGTGTGGAGCACCCAGGCAGACCCAGTCCTGGTTGGGATCACACCC  
ACGGGTGCTACTGCACGTAACACTCCTCCTTAGGCCTGGAGGCCAAGGTGTGGGTCCCCACGCCTGATCTTTGAA  
AACACTACACAGGGCTGCTGTCACTTCCCAGGGCCCAGGCCTCAGCCCAGGCCTCGGGACCAACTCTTGTATAA  
CCTACCTGAATGTATTAAAACTAATTTTG

3620/6881  
**FIGURE 3336**

ATGGATAGAATGGTGCTATCTGAGCTGTTATAATGTTGGCCTCATGCCTAGCTTTATATTGCAGCACGTCTGAGG  
CATTGGTTTTTTCATCCTTCCAAACTTTTGGTCTACAGAGACTATTAGAAGATTAAGTAGCTGCTGCTGGTGGTGA  
CAATGTCAAATAACGGCCTAGACATTCAAGACAAACCCCCAGCCCCTCCGATGAGAAATACCAGCACTATGATTG  
GAGCCGCGCAGCAAAGATGCTGGAACCCTAAACCATGGTCTAAACCTCTGCCTCCAAACCCAGAGGAGAAGAAAA  
AGAAGGACCGATTTTACCGATCCATTTTACCTGGAGATAAAACAAATAAAAAGAAAGAGAAAGACGGCCAGAGA  
TTTCTCTCCCTTCAGATTTTGAACACACAATTTCATGTCGGTTTTGATGCTGTCACAGGGGAGTTTACGGGAATGC  
CAGAGCAGTGGGCCCCGCTTGCTTCAGACATCAAATATCACTAAGTCGGAGCAGAAGAAAAACCCGAGGCTGTTT  
TGGATGTGTTGGAGTTTTACAACCTCGAAGAAGACATCCAACAGCCAGAAATACATGAGCTTTACAGATAAGTCAG  
CTGAGGATTACAATTCTTCTAATGCCTTGAATGTGAAGGCTGTGTCTGAGACTCCTGCAGTGCCACCAGTTTCAG  
AAGATGAGGATGATGATGATGATGATGCTACCCACCACCAGTGATTGCTCCACGCCCAGAGCACACAAAATCTG  
TATACACACGGTCTGTGATTGAACCACTTCCTGTCACTCCAACCTCGGGACGTGGCTACATCTCCCATTTACCTA  
CTGAAAATAACACCACTCCACCAGATGCTTTGACCCGGAATACTGAGAAGCAGAAGAAGAAGCCTAAAATGTCTG  
ATGAGGAGATCTTGGAGAAATTACGAAGCATAGTGAGTGTGGGCGATCCTAAGAAGAAATATACACGGTTTGAGA  
AGATTGGACAAGGTGCTTCAGGCACCGTGTACACAGCAATGGATGTGGCCACAGGACAGGAGGTGGCCATTAAGC  
AGATGAATCTTCAGCAGCAGCCCCAAGAAAGAGCTGATTATTAATGAGATCCTGGTCATGAGGGAAAACAAGAACC  
CAAACATTGTGAATTACTTGGACAGTTACCTCGTGGGAGATGAGCTGTGGGTTGTTATGGAATACTTGGCTGGAG  
GCTCCTTGACAGATGTGGTGACAGAACTTGCATGGATGAAGGCCAAATTGCAGCTGTGTGCCGTGAGTGTCTGC  
AGGCTCTGGAGTTCTTGCAATTCGAACCAGGTCATTCACAGAGACATCAAGAGTGACAATATTCTGTTGGGAATGG  
ATGGCTCTGTCAAGCTAACTGACTTTGGATTCTGTGCACAGATAACCCAGAGCAGAGCAAACGGAGCACCATGG  
TAGGAACCCCATACTGGATGGCACCAGAGGTTGTGACACGAAAGGCCATATGGGCCCAAGGTTGACATCTGGTCCC  
TGGGCATCATGGCCATCGAAATGATTGAAGGGGAGCCTCCATACCTCAATGAAAACCTCTGAGAGCCTTGATACC  
TCATTGCCACCAATGGGACCCAGAACTTCAGAACCCAGAGAAGCTGTCAGCTATCTTCCGGGACTTTCTGAACC  
GCTGTCTCGAGATGGATGTGGAGAAGAGAGGTTTCAGCTAAAGAGCTGCTACAGGTGAGAAAACCTGAGGTTTCAAG  
TGTTTAGTAACTTTTCCATGATAGCTGCATCAATTCCTGAAGATTGCCAAGCCCCTCTCCAGCCTCACTCCACTG  
ATTGCTGCAGCTAAGGAGGCAACAAGAACAATCACTAAAACCACACTACCCCAAGCCTCATTGTGCCAAGCCTT  
CTGTGAGATAAATGCACATTTAGAAATCCAACCTCTGATGCCCTCTTCTCCTTGCCCTTCTCTCCATTTCC  
TGATCTAGCACTCCTCAAGACTTTGATCCTTGAAACCGTGTGTCCAGCATTGAAGAGAACTGCAACTGAATG

3621/6881  
**FIGURE 3337**

GTGACTGCCTCTTCCAGGGCGGGCGGTGTGGTGCACGCATTGCTGTGCTCCAACCTCCCTCAGGGCCTGTGTTGCC  
GCACTCTGCTGCTATGAGCTTCCTCAAAAGTTTCCCGCCGCCTGGGCCAGCGGAGGGGCTCCTGCGGCAGCAGCC  
AGACACTGAGGCTGTGCTGAACGGGAAGGGCCTCGGCACTGGTACCCTTTACATCGCTGAGAGCCGCTGTCTTG  
GTTAGATGGCTCTGGATTAGGATTCTCACTGGAATACCCACCATTAGTTTACATGCATTATCCAGGGACCGAAG  
TGACTGTCTAGGAGAGCATTGTGTATGTTATGGTGAATGCCAAATTTGAAGAAGAATCAAAGAACCTGTTGCTGA  
TGAAGAAGAGGAAGACAGTGATGATGATGTTGAACCTATTACTGAATTTAGATTTGTGCCTAGTGATAAATCAGC  
GTTGGAGGCAATGTTCACTGCAATGTGCGAATGCCAGGCCTTGCATCCAGATCCTGAGGATGAGGATTCAGATGA  
CTACGATGGAGAAGAATATGATGTGGAAGCACATGAACAAGGACAGGGGGACATCCCTACATTTTACACCTATGA  
AGAAGGATTATCCCATCTAACAGCAGAAGGCCAAGCCCACTGGAGAGATTAGAAGGAATGCTTTCTCAGTCTGT  
GAGCAGCCAGTATAATATGGCTGGGGTCAGGACAGAAGATTCAATAAGAGATTATGAAGATGGGATGGAGGTGGA  
TACCACACCAACAGTTGCTGGACAGTTTGAGGATGCAGATGTTGATCACTGAAAATGATTTATGCAAGTTTAAGA  
TTCTGCTCCTAAGTGTAGGAGAGAACTTGGTGCCTCTTCCACTCTGGAGTGAAGTTAATGAAAGTCTTTTTCTCT  
TTCCAAAACCAACCTGAACCAGTTCTTTCTTGAGACAGACTATACTGAGACAACAAGTTGTCACCAGCAGAAGA  
TAGATAATATGACCTTTATTAACCTTGATGAATTAACCTTAACCAAGAGGGTATTTGTAGTTTACTATTTACCTAA  
AACTTTCTGTGCTCTGGGTACCCTCTGAGTAGGCCTATAATTCCTACCTTGACTGTGTGCATCATTTGTAAGCTAG  
CAGATCTATGTGGTGAATATGCACAGGAGCTTGGTAGACTGCGGGGAAAGAGAGAGCTCCTTTGCGCATGTTTT  
ACCAGTCTGCTGTTATAACCTCTTAGGTTGTATCCTTTAATTTCCAGCCTTTTAGGTTAGTTTCTGTAAACAGAAC  
AAGTGAGTCTGGGATGAAGTCCTCAAAGTACTTCAAATGGTAATTGTTTTGTTTTGTAATAGCTTAACAAATAA  
ACCTAGGTTTTCTATAAA

3622/6881  
**FIGURE 3338**

MSFLKSFPFPGPAEGLLRQQPDTEAVLNGKGLGTGTLYIAESRLSWLDGSGLGFSLEYPTISLHALSRDRSDCLG  
EHLYVMVNAKFEEESKEPVADEEEEDSDDDVEPITEFRFVPSDKSALEAMFTAMCECQALHPDPEDSDDDYDGE  
EYDVEAHEQGGDIPTFYTYEEGLSHLTAEGQATLERLEGMLSQSVSSQYNMAGVRTEDSIRDYEDGMEVDTTPT  
VAGQFEDADVDH

3623/6881  
**FIGURE 3339**

CGTTCTTTGCCGAGAGTCGTCGGGGTTTCCTGCTTCAACAGTGCTTGGACGGAACCCGGTGCTCGTCCCCACCC  
CAGCCGGCCGCCGCCACCTCTCCTTAGTCGCCGCCATGAGGACCACGTCCACCTCACAGGTGCGCCAGAACTACC  
ACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAACCTAGAGCTCTGTGCCTCCTACGTTTACCTGTCCATGT  
CTTACTGCTTTGACCGTGATGATGTGGCTTTGAAGAACTTTGCCAAATACTTCTTCACCAATCTCATGAGGAGA  
GGGAGCATGCTGAGAACTGATGAAGCTGCAGAACCAACGAGGTGGCCGAATCTTCTTCAGGATATCAAAAAAC  
CAGACTGTGATGACTGGGAGAGCGGGCTGAATGTGATGGAGTGTGCATTACATTGGAAAAAATGTGAATCAGT  
CACTACTGGAAGTGCACAAATTGGCCACTGACAAAAATGACCCCCATTTGTGTGACTTCATTGAGACACATTACC  
TGAATGAGCAGGTGAAAGCCATCAAAGAATTGGATGACCATGTGACCAACTTGACACAAGATGGGAGCACTCGAAT  
CTGGCTTGGCAGAATATCTCTTTGACAAGCACACCCTGGGAGACAGTGATAATGAAAGCTAAGCCTCGGCTAATT  
TCCCCGTAGCCGTGGGGTGACTTCCCTGGTCACCAAGGCAGTGCATGCATGTTGGGGTTTCCTTTACCTTTTCTA  
TAAGTTGTACCAAAACATCCACCTAAGTTCTTTGATTGTGCCATTCTTCAGATGAAGAAATTTGGTACCCCCC  
CCCCAAAAAAAAAAAAAAAAAATC

3624/6881  
**FIGURE 3340**

MTTASTSQVRQNYHQDSEAAINRQINLELYASYVYLSMSYYFDRDDVALKNFAKYFLHQSHEEREHAEKLMKLQN  
QRGGRIFLQDIKKPCDDWESGLNAMECALHLEKNVNQSLLELHKLATDKNDPHLCDFIETHYLNEQVKAIKELG  
DHVTNLRKMGAPESGLAEYLFDKHTLGDSDNES

3625/6881  
**FIGURE 3341**

GTCGTCGTGGTTTTTCCTTGTAGTTCGTGGTCTGAGACCAGGCCTCAAGTGGAAACGGCGTCACCATGATCGCACG  
GCGGAACCCAGAACCCTTACGGTTTCTGCCGGATGAGGCCCGGAGCCTGCCCCGCCCAAGCTGACCGACCCGCG  
GCTCCTCTACATCGGCTTCTTGGGCTACTGCTCCGGCCTGATTGATAACCTAATCCGGCGGAGGCCGATCGCGAC  
GGCTGGTTTGCATCGCCAGCTTCTATATATTACGGCCTTTTTTTTTGCTGGATATTATCTTGTA AACGTGAAGA  
CTACCTGTATGCTGTGAGGGACCGTGAAATGTTTGGATATATGAAATTACATCCAGAGGATTTTCTGAAGAAGA  
TAAGAAAACATATGGTGAAATTTTGA AAAATTCCATCCAATACGTTGAAGTCTTCAAATGCTTGCTCCAGTTT  
CACTGATACCTGCTGTTTCTGAATTTGATGGAACATGTTTCTTATGACAGTTGAAGCTTATGCTAATCTGTATGT  
TGACACCTTGTAATTAAATACGTACCATG



3626/6881  
FIGURE 3342A

ATGAGCGGCGGCGGCGACGTGGTGTGCACCGGCTGGCTGAGGAAATCGCCTCCCGAGAAGAAGTTGAGGCGCTAT  
GCTTGGAAAGAAACGCTGGTTTTATCCTGCGGAGTGGCCGATGAGCGGTGACCCAGATGTTCTGGAATACTACAAG  
AACGATCACTCCAAGAAGCCTCTGCGGATCATCAACCTGAACCTTCTGTGAGCAGGTAGATGCAGGCCTGACCTTT  
AACAAAGAAGGAGCTGCAGGATAGTTTTGTGTTTGACATCAAGACCAGTGAACGCACCTTTTACCTGGTGGCTGAG  
ACAGAAGAGGACATGAATAAGTGGGTCCAGAGCATCTGCCAGATCTGTGGCTTCAATCAGGCTGAGGAGAGCACA  
GACTCCCTGAGAAATGTTTCTCAGCCGGTCATGGCCCCGCTCTTCTCCAGCTGAGCTCAGCAGCTCTAGCCAG  
CACCTTCTCCGAGAGCGCAAGTCTCAGCCCCATCACACTCCAGCCAGCCAACTCTGTTACGTTTGAACCCCT  
GTGTCAAACCACATGCAGCCCACCTTGTCACCAGCGCACCTCAGGAGTATCTCTACTTGCACCAGTGCATAAGC  
CGAAGAGCAGAAATGCAAGGAGTGCCAGCTTCTCTCAGGGCACCAGAGCCTCTTTTCTCATGAGGAGTGACACA  
GCTGTACAAAACTTGCCAGGGCAATGGACACTGTGTCAACGGGATCAGTGGTCAAGTCCATGGCTTCTATAGC  
CTTCCCAAGCCGAGCCGGCACAATACAGAATTGAGAGACAGTACCTACGACCTCCCCCGCAGCCTGGCTTCCAT  
GGCCACACCAAGGGCAGCCTCACAGGCTCCGAGACAGATAATGAGGATGTGTACACCTTCAAGACGCCCAGCAAC  
ACCTTGTGCAGGGAGTTCGGGGACCTCCTGGTAGACAATATGGATGTTCCGGCCACCCACTCTCAGCCTACCAG  
ATCCCTAGGACATTCACTCTGGACAAAAACCAATGCCATGACAGTGGCCACTCTTGGGGACTCAGCCATAGCT  
CCCCACCCCGCCCCCAAGCCAAGTCAGGCAGAAACCTCGATGGGGCAGTCTCAGCAGAGACCGCCAATC  
AGTGAAAATAGCAGATCTGTGCTGCCACCATCCCCAGACGCAACACCCTCCCTGCAATGGACAACAGCCGACTT  
CACCGAGCTTCTTCTGTGAGACCTACGAGTACCCACAGCGTGGTGGAGAGAGTGCAGGCCGCTGTGCTGAATCC  
ATGAGTGATGGAGTTGGCTCTTCTGCCAGGAAAATGATTGTGGGCCGATCGGACAGCACAATTCTGAAGAC  
AACTATGTGCCCATGAATCCAGGTTCTTCCACCTGTTGGCCATGGAACGAGCAGGTGATAATCCCAGAGCGTC  
TACATCCCAATGAGCCAGGGGCCATCACTTTGACTCACTTGGCTACCCATCAACAACCCTTCTGTGCACCGA  
GGCCCCAGCAGAGGAAGTGAGATTAGCCACCCCTGTCAACCGCAACCTCAAACCTGATCGGAAAGCAAAGCCA  
ACACCACTTGACCTGAGGAACAACACCGTCATCGATGAACCTCCCTTCAAGTCACTATACCAAGTCTTGGTCT  
AGGGCCAACCAACCTTCAACTCCAGCTCTCCAGTACTGCCGCCCCATCTCCACCCAGAGCATCACCAGCACA  
GACTCAGGAGACAGCGAAGAGAACTATGTCCCTATGCAAAACCCAGTGTCTGCATCTCCCGTTCCAGTGGCAG  
AACAGTCTGCCCTAAGAAGAGCACCGGCAGCGTTGATTATCTGGCCCTGGACTTCCAGCCGAGCTCCCCAAGC  
CCCCACCGCAAGCCATCTACTTCATCCGTACCTCTGATGAGAAGGTGGACTACGTTCAAGGTGACAAGGAGAAG  
ACCCAGGCCCTGCAGAACCATGCAGGAGTGGACAGACGTGCGGCAGTCTCAGAGCCTTCCAAGGGTGCCAAG  
CTGTGATGAGAGGGCCACCGCAGAGCCAGGAGGCAGCATCTCCAGAGCTGGCCCTTCCCATCTCCCTCTCCCC  
TCTCCCGTTCTTCTCCATCCACCTCCTCTCTACTCTGCCAGTCTCAGCCTTCAAAGCACTTGACATCAGGGAC  
CCTGAACCTTCCCCTGGGAGGTGAGGGCCTGATCAAGGCACCTCCTCTGCCCACTCGGGGCCAGCTGTGATTT  
TTATCAGTAATGGCCATGCCTCCACCCACCTTAGTTAGGAGTACTTCCAAAAGCATCCTTCAGCCTCTTCTCTG  
TCCTTTAGACCTGACTCTCTACCAGATGTTTGGAGGGAAGGGCTGGGGCTCTGAGCCAGATTCCACACCTCACGT  
TCAGTCACAGCCCTCAGCTATCTTCCCTCCGGCCACTGGGCTACCTCTCCTTCAGTCCCAGAAGACAAGTCTCAC  
CAACCCAGGGAGTCAAGGACCAGCAAACCAAGTGGATAATGGACTTTTTTCACTCTGTTTTTCTTGGCAGGAGA  
GAAGCAAGGCCACTAAAGAGGAGATGGTGGAGACGGAGGCTCAGCAGTGGTCTTGAGGGGTAAAGGACTTAGAT  
GCCCAGATGAAGAGGGAAAGCTGACATCTGCAGGGAACCCACTTTGAGGCTGAGGCCATGGCAGGACAGCTGCTG  
TGGGGTGCAGAGGCAGAAGATGAAGGACAAAAGGAAGGGAACCTGATGGCCAACCTAGAGCAGCAAGGAGCAGG  
GCTTGGAGCTCGGGTGGTGGAGATGACAAGGACACTGTGGGGTCTGGGTCCCAGAACTCTGGAGCTACAGGCCA  
CTCTAGGCCCCAAGGGCTAGTCTCTTCCCCAGTCCCCTCAGAGGCCCCCGCCAGCCCCACCTTGAAAGCAGCATA  
CAGGGGAAGGCTTGGACCAAGCTGGGCGACCAAGCACATGGGGCAGGAACACATGGTAAAGGGGTGGGGAATATG  
GGAGGGAGTGTGGTGTGGATGGGGGTGATGCAGGACTGAGGGGAACCTGGGACAGGCACAGGCTGGGCAGAGG  
CACAGGGCAGTGCAGGGGACTCTGCAGTGGGGTCGGGAAGTGAGTTTCTTTGAGTGCAGTGCAGTGGAAAGTC  
GGGCACAGAGGTAGCAGACAGATGTGAAGCAGTGGTGAAGGCCATGTAGCAAGTGGGGAAATACATCCAAAGGGC  
CTGGGAGTTGGGGGGTGGCCAACGCAATCCTTGGGGGTGCAGGGTGGAGCAGAAAGTGAAGGAGGGACACGTGCA  
AGAGTGGTGTGCATGGTGGTGTGACATGAGGACCGTTCTAGGATGGGACAGTGGGTGAGGCAGGACAAGGAGAA  
AGCAGGGCAGAAATGATGCCTAGAGGACCACATCAGGCATGGCTGACAGCTTGTGCCCATGGGCTGTGGCGTATGT  
CAGATCGCAGGGTAGGAACGAGTCTGGCCTGGTGGCGCCAGTGTTCCTCAGCTCATCCGCCCTCTGTGTCTC  
CCTAGCATTCAGGAGCCATCTTGGACTCTCCTCCCCAGGTTTGAAGGCCATCAGATTAGCAGGGACGGGGTGT

3627/6881  
**FIGURE 3342B**

AGGGCATCACCCAAGGTTCTTCTCTTAACTAAGGGTGGGGGATCTGAATGTTTTATGTTGACTGTTCTTGAC  
TAAATTTTCAAGAGTTTCAGAAGCAACAGGACAGACCAGACGTTTCATTCTACCCTGGGGCGAACAGAACTTCTT  
CCTCCCAAACAAATGACTTCTGCCATGTTTTGATGGGGACAGCTACCACTGTCTCTGCCCCATTCCCTTTTCAG  
CTCCCATGAGCATGCATAGTTCACCAGACCAATGGCCTAGCCATTCTCTAAGTCCCATCCTGGAAGAAGTTATTT  
CTTCAAGAGCTGCACCTCTCTCTCTAGCATTAGTTTAGATCAACTCAAGGAGTATTTATTAATGGCTGCTGTCTC  
CAGTTTCTGGGGTTAAGCACTAAGGACACAAGAATCAATCAGACCTTCTCCCTGAACTTAAGATAGCCACAATCA  
GAAAAAGGACAAGGACATGAGACAGTGGTGATGGCCATCAGACAGAGACTTCAAATGCTGATGGAGGGCAGAGGA  
AGTACTTAGGGAGGTTGGTGTGAGAGGCAGGAGTGGGGGATCAGGGAAGGTGGATTCTAGGAAAAGGGAGTGCCT  
GAGGTAGGCCCTTAGAAGGGGATGAGTCAGATTTTTACAGAGGAGGAGGGCAGGGCTTGGGTCCAGTGGAGGAAGA  
AGGAAGGAGAGGCTTGGAAAGCCTTGTGTCTTGGGAAAAAAGGCCCTTGAGCATATGGGTCCAGCCACTCAGAA  
GTGCAGGGGCCATGCCTTGGTGTTCGAATAAGTGAATGGAAGCAGTGGTGGTAGCTACACTGGGCAGAGTTGGCA  
GGGTGCTGGTTCACTCTGCCCAGCCCTGAATGTGTGCCTTAAAGGCCCTTACAAGGGGCCCCATACGACAGAGC  
TTTTAACTGGTGCCTTCCCTGTACCCGACAGCCACAAGTGGGCCCAGACTATTGCAGCCTCCCATAAACATGT  
GAGCATGTTCTGAGTGTGCCATGATGTGAGTGGACCTGGCTGGAATCTTCGGAGAGCGACTGAGGTGTTCAAATC  
GAATCTCCCAGGAGGCTTCTTCCAGCCCCCTATTCTGGTAACTACCAGGAGGCTTCTTCCAGCCCCCTATTCT  
GGTAACTACCAAAATCCCTCGGGTGCAAGTGTAGGGGTAGAGATGGAAGGATGAGAGGTGAATTTGACCTTTGA  
AAGCAAAGCTCTGGCTACAGGCCCAAACTACCAGCCGTATCTAGCATATCCCCACCCTCCACCCACTACCTCC  
TCCAACAAAGGAGTCAACTCAGTTGAAAAAAGTGGTCTTTGGCCTATCCATGGGTCAAAGTCCACCTCTCTCGG  
GGGCTTGGAGAGGACTGAGCCTACGGAAAGGGGATACCTTCCCACTCAGCACTGCTTCACACAGGCCCCCTGCCT  
GGGGCTCTCCAAGGAGCCTTCTTACCCACTTCCAGCTCCACTTCTGCAAGGTTAAGTCAAGTGAGAACGATGAG  
AAATAGGGAGATGGTGTCTCTTAAGTCTTGATCTGCCTGTCTGTGGAATGGGAGGTTGGATTAGCTGCGCTGA  
GGTCCCATCCACAGCTGGTGTCTCAGCTGCTTGAAGGGGAGACTCCCTCCTCTGTAACCTCTTCTGGGGGATTGG  
GGTGGGCAGTACCTATCCCCAGTCCCTCCTAGCTTGACTTTAGTGGTTTCCAATGTAGAAGTTAACAAGTATG  
CCCCATTCTGTGACAAAAGCACAACCATTCTGAAGTTACTGGAGCATGGGCTCAGCTCATCTCCCTCTGGCCC  
CTTCTCCCATGGGGACATCTCGGCCAGCACCCCTATCCCATTTCCAGAGTTCTTCTTCCCCATCTGGGCCTTC  
ATAAAATGCAGGGGAAGCCAGACTGGTCTCAGGAGCGCTAAAGCCCTTCCGTGGGGGGTCTGCTTTCTGGGACTA  
GCCCTGCTGTTTAGGACCTGGGACCACAATGGGTACCTGCCGAGGGGGTCCCCAAGAGATCCAGGCTGTATGT  
GATTTATGGTGGCATGTGTGTGATTTGTTGGCTACTTGTGTCTTGAAATCTAGAATTATTTACGCAGAATTG  
TCACTGTTTGTGAGGAAGAGAAAATGGGCTAGTGAAGCCAGTCTTGAGTTCTTGTCTTGTGTTACCATTTAAAT  
TGACATTTAATTTTCAAATCACTGTTGGTGCCTAATCACTTAAGTTATTAATTTATTCTGTTGTATTCTTTTTT  
TAAATTGTAACATATTTATCCGGTGGGTGGGACAGGAGTGTGTCAAGTGGGTGATGTTTTGTGTGGTGACAC  
ATGGTACAGGCTTGGAGCTTGCAGGTCCCTTTCTACTGTGGTGTGGAGCAGGACAATAAAGTCCACTAGAAATG  
CACCCCA

3628/6881  
**FIGURE 3343**

MSGGGDVVCTGWLKSPPEKKLRRYAWKKRWFILRSGRMSGDPDVLEYKNDHSHKPLRIINLNFCEQVDAGLTF  
NKKELQDSFVFDIKTISERTFYLVAEETEEDMNKWWQSICQICGFNQAEESTDSLNRNVSSAGHGPRSSPAELSSSSQ  
HLLRERKSSAPSHSSQPTLFTFEPPVSNHMQPTLSTAPQEYLYLHQCISRAENARSASFQGTASFLMRSDT  
AVQKLAQGNHCVNGISGQVHGfYSLPKPSRHNTFRDSTYDLPRSLASHGHTKGSLTGSETDNEDVYTFKTPSN  
TLCREFGDLLVDNMDVPATPLSAYQIPRTFTLDKNHNAMTVATPGDSAIAPPPRPKPSQAETPRWGSPQQRPI  
SENSRSVAATIPRRNTLPAMDNSRLHRASSCETYEYPQRGESAGRSAESMSDGVGSFLPGKMIVGRSDSTNSE  
NYVPMNPGSSTLLAMERAGDNSQSVYIPMSPGAHHFDSLGYPSTTLPVHRGPPSRGSEIQPPPVNRNLKPDRAKAP  
TPLDLRNNTVIDELPFKSPITKSWSRANHTFNSSSSQYCRPISTQSI TSDSGDSEENYVPMQNPVSASPVPST  
NSPAPKKSTGSVDYLALDFQPSSPSPHRKPSTSSVTSDEKVDYVQVDKEKTQALQNTMQEWTDVRSSEPSKGAK  
L

3629/6881  
**FIGURE 3344A**

GAAATTTTGAGAAGTGGTGGGATGAAGAAGATCCCTGAAGAGAGGAGTAAGTGAAGACAAAGGCGAGGCTAGCAAT  
AGAGAGACAAGTGAGGGAATTAGACCTTTGGTATCATCATGAAAAGGCCTGGAAGAAACGCTGGTTTATCCTGCG  
GAGTGGCCGGATGAGCGGTGACCCAGATGTTCTGGAATACTACAAGAACGATCACTCCAAGAAGCCTCTGCGGAT  
CATCAACCTGAACCTTCTGTGAGCAGGTAGATGCAGGCCTGACCTTTAACAAGAAGGAGCTGCAGGATAGTTTTGT  
GTTTGACATCAAGACCAGTGAACGCACCTTTTACCTGGTGGCTGAGACAGAAGAGGACATGAATAAGTGGGTCCA  
GAGCATCTGCCAGATCTGTGGCTTCAATCAGGCTGAGGAGAGCACAGACTCCCTGAGAAATGTTTCTCAGCCGG  
TCATGGCCCCCGCTCTTCTCCAGCTGAGCTCAGCAGCTCTAGCCAGCACCTTCTCCGAGAGCGCAAGTCTCAGC  
CCCATCACACTCCAGCCAGCCAACCTCTGTTTACGTTTGAACCCCTGTGTCAAACCACATGCAGCCCACCTTGTC  
CACCAGCGACCTCAGGAGTATCTCTACTTGCACCACTGCATAAGCCGAAGAGCAGAAAATGCAAGGAGTGCCAG  
CTTCTCTCAGGCGACCAAGAGCCTCTTTTCTCATGAGGAGTGACACAGCTGTACAAAACTTGCCAGGGAATGG  
ACACTGTGTCAACGGGATCAGTGGTCAAGTCCATGGCTTCTATAGCCTTCCCAAGCCGAGCCGGCACAATACAGA  
ATTCAGAGACAGTACCTACGACCTCCCCCGCAGCCTGGCCTCCCATGGCCACACCAAGGGCAGCCTCAGGCTC  
CGAGACAGATAATGAGGATGTGTACACCTTCAAGACGCCCAGCAACACCTGTGCAGGGAGTTCGGGGACCTCCT  
GGTAGACAATATGGATGTTCCGGCCACCCACTCTCAGCCTACCAGATCCCTAGGACATTCACTCTGGACAAAAA  
CCACAATGCCATGACAGTGGCCACTCCTGGGGAAGTCCAGCATAGCTCCCCACCCCGCCCCCAAGCCAAGTCA  
GGCAGAAACACCTCGATGGGGCAGTCTCAGCAGAGACCGCCAATCAGTGAAAATAGCAGATCTGTGCTGCCAC  
CATCCCCAGACGCAACACCTCCTGCAATGGACAACAGCCGACTTCACCGAGCTTCTTCTGTGAGACCTACGA  
GTACCCACAGCGTGGTGGAGAGAGTGCAGGCGGTCTGCTGAATCCATGAGTGATGGAGTTGGCTCTTTCTGCC  
AGGGAATGATTGTGGCCGATCGGACAGCACCAATTCTGAAGACAATATGTGCCCATGAATCCAGGTTCTTC  
CACCCTGTTGGCCATGGAACGAGCAGGTGATAATTCCAGAGCGTCTACATCCCAATGAGCCAGGGGCCATCA  
CTTTGACTCACTTGGCTACCCATCAACAACCTTCTGTGCACCGAGGCCCCAGCAGAGGAAGTGAGATTACGCC  
ACCCCTGTCAACCGCAACCTCAAACCTGATCGGAAAGCAAAGCCAACACCACTTGACCTGAGGAACAACACCGT  
CATCGATGAACCTCCCTTCAAGTCACCTATCACCAGTCTTGGTCTAGGGCCAACCACACCTTCAACTCCAGCTC  
CTCCAGTACTGCCGCCCATCTCCACCCAGAGCATCACCAGCACAGACTCAGGAGACAGCGAAGAGAATATGT  
CCCTATGCAAAACCCAGTGTCTGCATCTCCCGTTCCTAGTGGCACGAACAGTCTGCCCCCTAAGAAGAGCACCGG  
CAGCGTTGATTATCTGGCCCTGGACTTCCAGCCGAGCTCCCCAAGCCCCACCGCAAGCCATCTACTTCATCCGT  
CACCTCTGATGAGAAGGTGGACTACGTTTCAAGTGGACAAGGAGAAGACCCAGGCCCTGCAGAACACCATGCAGGA  
GTGGACAGACGTGCGGCAGTCTCAGAGCCTTCCAAGGGTGCCAAGCTGTGATGAGAGGGCCACCGCAGAGCCCA  
GGAGGCAGCATCTCCAGAGCTGGCCCTTCCCATCTCCCTCTCCCTCTCCCGTCTTCTCCTCCATCCACCTCCT  
CTCTACTCTGCCAGTCTCAGCCTTCAAAGCACTTGACATCAGGGACCCCTGAACCTTCCCTGGGAGGTGAGGGC  
CTGATCAAGGCACCTCCTTGCCCACTCGGGGCCAGCTGTGATTTTTATCAGTAATGGCCATGCCTCCACCCAC  
CTTAGTTAGGAGCTACTTCAAAAAGCATCTTACGCTCTTCTGTCTTTAGACCTGACTCTCTACCAGATGT  
TTGGAGGGAAGGGCTGGGGCTCTGAGCCAGATTCCACACCTCACGTTTCAATCACAGCCCTCAGCTATCTTCCCTC  
CGGCCACTGGGCTACCTCTCCTTCAGTCCCAGAAGACAAGTCTCACCAACCCAGGGAGTCAAGGACCAGCAAACC  
AAAGTGGATAATGGACTTTTTTCACTTCTGTTTTTCTTGGCAGGAGAGAAGCAAGGCCACTAAAAGAGGAGATGGT  
GGAGACGGAGGCTCAGCAGTGGTCTTGAGGGGTAAAGGACTTAGATGCCAGATGAAGAGGGAAGCTGACATCT  
GCAGGGAACCCACTTTGAGGCTGAGGCCATGGCAGGACAGCTGCTGTGGGGTGCAGAGGCAGAAGATGAAGGACA  
AAAGGAAGGGAAGAACTGATGGCCAACCTAGAGCAGCAAGGAGCAGGGCTTGAGGCTCGGGTGGTGGAGATGACAA  
GGACACTGTGGGGTCTGGGTCCCCAGAACTCTGGAGCTACAGGCCACTCTAGGCCCAAGGGCTAGTCTCTTCCC  
CAGTCCCCCTCAGAGGCCCGCCAGCCCCACCTTGAAAGCAGCATACAGGGGAAGGCTTGACCAAGCTGGGCGA  
CCAAGCACATGGGGCAGGAACACATGGTAAAGGGGTGGGGAATATGGGAGGGAGTGTGGTGTGGATGGGGGTGAT  
GCAGGGACTGAGGGGAACCTGGGACAGGCACAGGCTGGGCAGAGGCACAGGGCAGTGCAGGGGACTCTGCAGTG  
GGGTGCGGAAGTGAGTTTTCTTTCAGTGAGCAGTGAGTGGAAGTCGGGCACAGAGGTAGCAGACAGATGTGAAG  
CAGTGGTGAAGGCCATGTAGCAAGTGGGGAATATACATCAAAGGGCTGGGAGTTGGGGGTGCCCAACGCAATC  
CTTGGGGGTGCAGGGTGGAGCAGAAAGTGAAGGAGGGACACGTGCAAGAGTGGTGTGCATGGTGGTGTGACATGA  
GGACCGTTTCTAGGATGGGACAGTGGGTGAGGCAGGACAAGGAGAAAGCAGGGCAGAAATGATGCCTAGAGGACCA  
CATCAGGCATGGCTGACAGCTTGTGCCATGGGTGTGGCGTATGTGAGATCGCAGGGTAGGAACGAGTCTGGCC  
TGGTGCCGGCCAGTGTTCCTCAGCTCATCCGCCCTCTGTTGCTCCCTAGCATTCAGGAGCCATCTTGGACTC

3630/6881  
**FIGURE 3344B**

TCCTCCCCAGGTTTGAAAGGCCATCAGATTAGCAGGGACGGGGTGTAGGGCATCACCCAAGGTTCTTCTCTTAA  
ACTAAGGGTGGGGGATCTGAATGTTTTATGTTGACTGTTCTTGACTAAATTTTCAAGAGTTTCAGAAGCAACAG  
GACAGACCAGACGTTTCATTCTACCCCTGGGGCGAACAGAACTTCTTCTCCCAAACAATGACTTCCTGCCATGTT  
TGATGGGGACAGCTACCCTGTCTCTGCCCCATTCCCCTTTTCAGCTCCCATGAGCATGCATAGTTCACCAGAC  
CAATGGCCTAGCCATTCTCTAAGTCCCATCCTGGAAGAAGTTATTTCTTCAAGAGCTGCACCTCTCTCTCTAGCA  
TTAGTTTAGATCAACTCAAGGAGTATTTATTAATGGCTGCTGTCTCCAGTTTCTGGGGTTAAGCACTAAGGACAC  
AAGAATCAATCAGACCTTCTCCCTGAACCTAAGATAGCCACAATCAGAAAAAGGACAAGGACATGAGACAGTGGT  
GATGGCCATCAGACAGAGACTTCAAATGCTGATGGAGGGCAGAGGAAGTACTTAGGGAGGTTGGTGTGAGAGGCA  
GGAGTGGGGGATCAGGGAAGGTGGATTCTAGGAAAAGGGAGTGCCTGAGGTAGGCCTTAGAAGGGGATGAGTCAG  
ATTTTACAGAGGAGGAGGGCAGGGCTTGGGTCCAGTGGAGGAAGAAGGAAGGAGAGGCTTGGAAAGCCTTGTTG  
CTTGGGAAAAAAGGCCCTTTGAGCATATGGGTCCAGCCACTCAGAAGTGCAGGGGCCATGCCTTGGTGTTCGAAT  
AAGTGAATGGAAGCAGTGGTGGTAGCTACACTGGGCAGAGTTGGCAGGGTGTGTTTCACTCTGCCCAGCCCTGA  
ATGTGTGCCTTAAAGGCCCCCTACAAGGGGCCCCATACGACAGAGCTTTAACTGGTGCCTTCCCTGTACCCGCA  
GCAGCCACAAGTGGGCCCAGACTATTGCAGCCTCCCAATAACATGTGAGCATGTTCTGAGTGTGCCATGATGTGA  
GTGGACCTGGCTGGAACTCTCGGAGAGCGACTGAGGTGTCAAATCGAATCTCCAGGAGGCTTCCCTCCAGCCC  
CCTATTCTGGTAACTACCAGGAGGCTTCCCTCCAGCCCCCTATTCTGGTAACTACCAAAATCCCTCGGGTGCAAG  
TGTAGGGGTAGAGATGGAAGGATGAGAGGTGAAATTGACCTTTTGAAAGCAAAGCTCTGGCTCACAGGCCCCAAA  
CTACCAGCCGTATCTAGCATATCCCCACCCTCCACCCTACCTCCTCCAACAAGGAGTCAACTCAGTTGAAAA  
AACTGGTCTCTTGGCCTATCCATGGGTCAAAGTCCACCTCTCCTGGGGGCTGGAGAGGACTGAGCCTACGGAAA  
GGGGATACCTTCCCACTCAGCACTGCTTACACAGGCCCCCTGCCTGGGGCTCTCCAAGGAGCCTTCTTACCCCA  
CTTCCAGCTCCACTTCTGCAAGGTTAAGTCAAGTGAGAACGATGAGAAATAGGGAGATGGTGTCTCCTTAAGTCC  
TTGATCTGCCTGTCTGTGGAATGGGAGGTTGGATTAGCTGCGCTGAGGTCCCATCCACAGCTGGTGTCTCAGCTGC  
TTGAAGGGGAGACTCCCTCCTCTGTAACTTCTTTCTGGGGGATTGGGGTGGGCAGTACCTATCCCCAGTCCCCTC  
CTAGCTTGACTTTAGTGGTTTCCAATGTAGAAGTTAACAAAGTATGCCCCATTCTGTGACAAAAGCACAAACCAT  
TCTGAAGTTACTGGAGCATGGGCTCAGCTCATCTCCCTCTGGCCCCCTTCTCCCATGGGGACATCTCGGCCCAGC  
ACCCCTATCCCATTTCCAGAGTTCTTCCCTTCCCCATCTGGGCCCTTCAATAAATGCAGGGGAAGCCAGACTGGTCT  
CAGGAGCGCTAAAGCCCTTCCGTGGGGGGTCTCTTTCTGGGACTAGCCCTGCTGTTTAGGACCTGGGACCACAA  
TGGGGTACCTGCCGAGGGGGTCCCCAAGAGATCCAGGCTGTCATGTGATTTATGGTGGCATGTGTTGTGATTTG  
TTGGCTACTTGTGTCTTGAATCTAGAATTATTTACGCAGAAATTGTCACTGTTTGTGAGGAAGAGAAAATGGGC  
TAGTGGAAAGCCAGTCTTGAGTCTTGTCTTGTACATTTAAAAATTGACATTTAATTTTCAAATCACTGTTGGT  
GCCTAATCACTTAAGTTATTAATTTATTTCTGTGTGATTCTTTTTTTTAAATTGTAACATATTTATCCGGTGGGTG  
GGACAGGAGTGTGTTCAAGTGGGTGATGTTTTGCTGTGGTGACACATGGTACAGGCTTGGAGCTTGAGGTCCC  
TTTCTACTGTGGTGTGGAGCAGGACAATAAAGTCCACTAGAAATGCACCCCA

3631/6881  
**FIGURE 3345**

MSGDPDVLEYYKNDHKKPLRIINLNFCEQVDAGLTFNKKELQDSFVFDIKTSERTFYLVAEETEDMNKWWQSIC  
QICGFNQAEESTDSLNRNVSSAGHGPRSSPAELSSSSQHLLRERKSSAPSHSSQPTLFTFEPPVSNHMQPTLSTSA  
PQEYLYLHQCSRRANARSASFSGTRASFLMRSDTAVQKLAQGNHCVNGISGQVHGFYSLPKPSRHNTFRD  
STYDLPRSLASHGHTKGSLTGSETDNEDVYTFKTPSNTLCREFGDLVDNMDVPATPLSAYQIPRTFTLDKNHNA  
MTVATPGDSAIAPPPRPPKPSQAETPRWGSPPQRPPISENSRVAATIPRRNTLPAMDNSRLHRASSCETYEYPQ  
RGGESAGRSAESMSDGVGSFLPGKMIVGRSDSTNSEDNYVPMNPGSSTLLAMERAGDNSQSVYIPMSPGAHHFDS  
LGYPSTTLVHRGPSRGSEIQPPVNRNLKPDRKAKPTPLDLRNNTVIDELPFKSPITKSWSRANHTFNSSSSQY  
CRPISTQSITSTDSDSEENYVPMQNPVSASPVPSGTNSPAPKKSTGSVDYLALDFQPSSPSHRKPSTSSVTSD  
EKVDYVQVDKEKTQALQNTMQEWDVRSSEPSKGAKL

3632/6881  
**FIGURE 3346**

TTTAACCATTTCTAACTTTGCCTTGGGATATTGAAAATTCTGAATCAGTGAGGTATCTAAATAATTTATATTTTCA  
AAAAATAATGTTTATTTTATAATTCTGAGTGTAAAACACTATCAGAAAAGTAATCCTCATGCTCACTAAACAAAC  
CTACTCTAAGACACTCAACAACCCAGAACAGTTTATTATTGAGTTGTGTACAAAAATCTTGACTGTCCAGATGAA  
ATAGTTTTTTCAGCCTGCAGTGTGTTAGTGATATATCTCAAGGAGATGAACCAATAAAGTACAGACTTTGTGGTCT  
GAAGCTCTGTTGTGAAAAATAAGCTAAACCAATTCACACTGACAGTATAATTTGATTCAAGTGCAGTCCAGTT  
CAATAAAAACTAATGTTTTTAAAATTAACCTTTGTTTGTATTTGGTTCAACTCCTTGCTAGTTCTCTCTCTATAT  
AATTTATAAAAACTGCATGTTGCTAATCTCATGATCCTGTGCATGTGGACTACTCTGCCTTTAACTTTTTTACAA  
AAACATGTTTGTTCATAGATTAAATAAAAGTATGTTTTCAACTTAATGTCTAATGTTTCTGACAATTGTAAGAA  
TAATTTTGAAATGGAAATGCTGCTGTTTAGTTTCCACAGTGCCTACACAACCTGATAATCCATTTTCTCACCTG  
ACAAACTCAAAAGGATGAGCAAGTCTGTTCCAGCATTTCTCCAAGATGAGAGTGATGACAGAGAAACAGATACAG  
CATCAGAAAGCAGTTACCAGCTCAGCAGACACAAGAAGAGCCCGAGCTCTTTAACCAATCTTAGCAGCTCCTCTG  
GCATGACGTCCTTGTCTTCTGTGAGTGGCAGTGTGATGAGTGTTTATAGTGGAGACTTTGGCAATCTGGAAGTTA  
AAGGAAATATTCAGTTTGCAATTGAATATGTGGAGTCACTGAAGGAGTTGCATGTTTTGTGGCCAGTGTAAAG  
ACTTAGCAGCAGCGGATGTAAAAAACAGCGTTTACAGCCCATATGTAAAGGCCTATTTGCTACCAGACAAAGGCA  
AAATGGGCAAGAAGAAAACACTCGTAGTGAAGAAAACCTTGAATCCTGTGTATAACGAAATACTGCGGTATAAAA  
TTGAAAAACAAATCTTAAAGACACAGAAATTGAACCTGTCCATTTGGCATCGGGATACATTTAAGCGCAATAGTT  
TCCTAGGGGAGGTGGAACCTTGATTTGGAACATGGGACTGGGATAACAAACAGAAATAACAATGAGATGGTACC  
CTCTGAAGCGGAAGACAGCACCAGTTGCCCTTGAAGCAGAAAACAGAGGTGAAATGAACTAGCTCTCCAGTATG  
TCCCAGAGCCAGTCCCTGGTAAAAAGCTTCTTACAACCTGGAGAAGTGCACATCTGGGTGAAGGAATGCCTTGATC  
TACCACTGCTAAGGGGAAGTCATCTAAATCTTTTGTAAATGTACCATCCTTCCAGATACAAGTAGGAAAAGTC  
GCCAGAAGACAAGAGCTGTAGGGAACCAACCAACCTATCTTCAACCACACTATGGTGTATGATGGGTTTCAGGC  
CTGAAGATCTGATGGAAGCCTGTGTAGAGCTTACTGTCTGGGACCATTACAAATTAACCAACCAATTTTTGGGAG  
GTCTTCGTATTGGCTTTGGAACAGGTAAAAGTTATGGGACTGAAGTGGACTGGATGGACTCTACTTCAGAGGAAG  
TTGCTCTCTGGGAGAAGATGGTAAACTCCCCCAATACTTGGATTGAAGCAACACTGCCTCTCAGAATGCTTTTGA  
TTGCCAAGATTTCCAAATGAGCCCAAATTCCTACTGGCTCCTCCACTGAAAACCTACTAAACCGGTGGAATCTGATC  
TTGAAAATCTGAGTAGGTGGACAAATATCCTCACTTTCTATCTATTGCACCTAAGGAATACTACACAGCATGTAA  
AAGTCAATCTGCATGTGCTTCTTTGATTACAAGGCCCAAGGGATTAAATATAACAAAATGTGTAATTTGTGACT  
CTAATATTAAATAAGATATTTGAACAAGCTAGGAAAATTGAATTTCTGCTGCTGCTTCAAAGAAAAAGCTGCCCC  
AGAGCATTAAACATGGGGTATTGTTAAGAAGCAAAATGTTCTTGTGTTGCCATCATGTGTTTACACCACAATTCT  
GTGCCACAGTTAAGAGGGTCTGGTACCCTTGCAGGACCTTTGTAGGTTGTGGGAAAAAGTCGCAGAAAGATACTC  
AAAGTGGAGCAGGGAATGGAGACAGACATCAGTGATGATAAAAAAAAAAAGGACCTTAAGAACTATTTACTCT  
GTAATCTCTAATAAAATATGGAATTCATATTAGGGCAATGAGACTGAACTACTGGTGTGTTTTCTGCCTTGAGA  
AAACAAACAGTTAAACAAAGCCTCAAATGTATTTTAGTGCCACCCACTGGCCATAGGTACAATTCAGTTGTTGGC  
TTGTTTTGACTTAATTTCTAAAATAGGTCTCAAGCCTGTATTTTATGAGTTTATTTTTTAAACCCTGCATATA  
TATGATTGTTTTTCTTATACTTTACTATATGAAAGCAGCATAAGAGTAGTCACAAACATGTTTTGCAACAAAGT  
TTTAATTAGAATGTAAGTTGCTCAGTTATACTGTTCTTCTTATGTATGTAAATTTTCGTATTTTGTAACCAACC  
TTAGAATAAATTATCATTTGATTTAAATTGT

3633/6881

**FIGURE 3347**

MSKSVPAFLQDESDDRETDASESSYQLSRHKKSPSSLTNLSSSSGMTSLSSVSGSVMSVYSGDFGNLEVKGNIQ  
FAIEYVESLKELVFVAQCKDLAAADVKKQRSDPYVKAYLLPDKGKMGKKKTLVVKKTLNPVYNEILRYKIEKQI  
LKTQKLNLSIWHRDTFKRNSFLGEVELDLETWDWDNKQNKQLRWYPLKRKTAPVALEAENRGEMKLALQYVPEPV  
PGKKLPTTGEVHIWVKECLDLPLLRGSHLNSFVKCTILPDTSRKSQKTRAVGKTTNP IFNHTMVYDGRFPEDLM  
EACVELTVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEKMNVPNTWIEATLPLRMLLIAKIS  
K



3634/6881  
**FIGURE 3348**

GGCAGGCATGGGAGCCGCGCGCTCTCTCCCGGCCGCCACACCTGTCTGAGCGGCGCAGCGAGCCGCGGCCCGGGC  
GGGCTGCTCGGCGCGGAACAGTGCTCGGCATGGCAGGGATTCCAGGGCTCCTCTTCCTTCTCTTCTTCTGCTCT  
GTGCTGTTGGGCAAGTGAGCCCTTACAGTGCCCCCTGGAAACCCACTTGGCCTGCATACCGCTCCCTGTCTCT  
TGCCCCAGTCTACCCCTCAATTTAGCCAAGCCAGACTTTGGAGCCGAAGCCAAATTAGAAGTATCTTCTTCATGTG  
GACCCCACTGTCTATAAGGGAACCTCCACTGCCCCTTACGAAGAGGCCAAGCAATATCTGTCTTATGAAACGCTCT  
ATGCCAATGGCAGCCGCACAGAGACGCAGGTGGGCATCTACATCCTCAGCAGTAGTGGAGATGGGGCCCAACACC  
GAGACTCAGGGTCTTCAGGAAAGTCTCGAAGGAAGCGGCAGATTTATGGCTATGACAGCAGGTTTCAGCATTTTGG  
GGAAGGACTTCCCTGCTCAACTACCCCTTTCTCAACATCAGTGAAGTTATCCACGGGCTGCACCGGCACCCCTGGTGG  
CAGAGAAGCAITGTCCTCACAGCTGCCCACTGCATACAGATGGAAAAACCTATGTGAAAGGAACCCAGAAGCTTC  
GAGTGGGCTTCCCTAAAGCCCAAGTTTAAAGATGGTGGTCGAGGGGCCAACGACTCCACTTCAGCCATGCCCGAGC  
AGATGAAATTTTCACTGGATCCGGGTGAAACGCACCCATGTGCCCAAGGGTTGGATCAAGGGCAATGCCAATGACA  
TCGGCATGGATTATGATTATGCCCTCCTGGAACCTCAAAAAGCCCCACAAGAGAAAATTTATGAAGATTGGGGTGA  
GCCCTCCTGCTAAGCAGCTGCCAGGGGGCAGAATTCACCTTCTCTGGTTATGACAATGACCGACCAGGCAATTTGG  
TGTATCGCTTCTGTGACGTCAAAGACGAGACCTATGACTTGCTCTACCAGCAATGCGATGCCAGCCAGGGGCCA  
GCGGGTCTGGGGTCTATGTGAGGATGTGGAAGAGACAGCAGCAGAAGTGGGAGCGAAAAATTTATTGGCATTTTTT  
CAGGGCACCAGTGGGTGGACATGAATGGTTCCCCACAGGATTTCAACGTGGCTGTCAGAATCACTCCTCTCAAAAT  
ATGCCCAGATTTGCTATTGGATTAAAGGAACTACCTGGATTGTAGGGAGGGGTGACACAGTGTTCCCTCCTGGC  
AGCAATTAAGGGTCTTCATGTTCTTATTTTAGGAGAGGCCAAATTGTTTTTGTATTGGCGTGCACACGTGTGT  
GTGTGTGTGTGTGTGTGTGTAAGGTGTCTTATAATCTTTTACCTATTTCTTACAATTGCAAGATGACTGGCTTTA  
CTATTTGAAAACCTGGTTTGTGTATCATATCATATATCATTTAAGCAGTTTGAAGGCATACTTTTGCATAGAAATA  
AAAAAATACTGATTTGGGGCAATGAGGAATATTTGACAATTAAGTTAATCTTCACGTTTTTGCAAACCTTGATT  
TTTATTTTCATCTGAACCTGTTTCAAAGATTATATTAATATTTGGCATAACAAGAGATATGA

3635/6881  
**FIGURE 3349**

TGCTGGCCGGGCGAGAGGCTGGCGGCTGGGCTCTCGCGCCCTCCCTGCAGGGCTCAGGCTCTCCCCCTCCTGTC  
TTCTCCGCGCTGTTCTCGTCATGGCGGCCCTCAGCAAGTCCATCCCTCATAACTGCTATGAGATCGGCCACACT  
TGGCACCCCTTCTGCGGGTCTCTTCTGTCAGATCACCGGGGGCGCCCTGGAGGAGTCCCTGAAGATCTATGCT  
CCTCTGTACTTGATTGCAGCAATTCTCCGAAACGGAATTAGACTATTATTTACACAACTACTCCCTGAGATC  
CTACAATCCGCTTCAATTTCTAACTGCTAATGGGGCTTGTATATGGCTTTCTTTTGCAATTTAAGGAAGATACTT  
GGAAAATTCTACTCATGGACTCCTGGCTTTGGTGCCGCTCTGCCAGCATCTTATGTGGCCATTCTCATTGAAAGA  
AAAAGCAGGAGAGGGGCTGCTCACAATTTATATGGCCAACTTGGCCACAGAAACACTATTGAGAATGGGTGTAGCA  
AGAGGAACCATCACACAATTAAGAAATGGAGAAGTCTTTTGTGTTTGCATCACAGCTGCCATGTACATGTTCTTT  
TTCAGGTGCAAGGATGGCTTGAAAGGATTTACATTTTCTGCACTTAGGTTTATTGTAGGGAAGGAAGAAATCCC  
ACACATTTCTTTTACCAGAGGCAGCATATGCAAAAGTGAACAAAAGAGAGAGCAACATGAGGAAAAACCCGGA  
AGAATGAATATGATTGGTCTAGTCAGGAAATTTGTGGATTCAATATGCAACATGGACCAAGGCATAGATGTTGC  
AAACATTATGAAGATAATTGCATCTCTTATTGCATTAAAGGTTTTCATCAGAATGTTTAGCGTGGGGTACTTGATC  
CAGTGTGCTGCCCTCCGAATCCCTTCTGCATTTAGGCATCTGTTTACACAGCCATCTCGGCTACTTTCTCTCTTCTAC  
AATAAAGAAAACCTTCCAGCTTGGAGCTTTTCTTGGCTCTTTGTAGTATATACAAGGGTACTAGTTGCTTCTCTG  
CGCTGGATCAGAACTTAGATGATGAACACATGCTATTATAGCTGGATTTTGGCAGGTATATCAATGATGTTT  
TATAAAGCACAACAATTTCCATGATTTAGCGTCCAAATTGGTAGAGACAATGTATTTCAAAGGCATTGAAGCA  
GGGAAGGTTCCCTATTTTCTCATGCAGATACTATCATCTATTCCATCTCTACAGCAATTTGCTTCCAGGCAGCT  
GTCATGGAAGTTTCACTTTGAGACCATCTTACTGGAAGTTCCTTTTAAAGACTCACCAGGGCAAATTTGCTGTC  
ATGAACCGAAAAGTCCCTTGATGTTTTTGGTACTGGTGCATCTAAACACTTTCAGGATTTTATCCCCAGGTTGGAT  
CCAAGATACACAAGTGAACACCAGAGTTGCCACAGAGTTTCTGAGATGACTGTAACCTTATTAATGTGACT  
AAATGTTTCTCTTGAAGAGTTAATTATGTTGAACACAAAGGAGGGGGCCCAAGCTCGAAGCTCAGTGTATTTTC  
AGTTAGAGATACTCTTTTCAATTTGTTTTGTTTTCTTATGAATCAGAAATTCAGAAGCTTTTLAGGAAGATGTTG  
CTTAATAATTAAGCTTCTCCATAGCCAGAATAAGATTCTGGATCACTGTAGTACTGACATTATATATTATTGA  
TCAAATTATGTCCACAAGCAATATTATATAATCTACGTAGAAGTGAATAACAAACAAGAGTACACTTAAATTA  
CTTTAAAGATGTCTTTAGTTCAATTTCAATATAATCTTGATTAAATTAGGATTATTTCTACATTTTAGGATTT  
ACAAAGGATCACGGGTACATGGATTTGGTCTATATATTTTTTAAAGTTTTGAATTGGTATCTGTAGTAGTGGA  
TGTTATAGATTTGAAGTAACTCTCCACGGACAGTGTGCTTTCTGTAGAGCAATTTAATTGGAGAAGTGGCCAT  
TCTTACTTTCAGGGATGCAAGATGGGTCTCATACCATTGGATAAATGTCGTGGTATCCATGCTTTTTTCAACT  
AATAACATCATCTCTCTTCATGACCAGTTAATTGGGCTATTTGGCAGCCAGTGAACCTATGTACTAATGGCAAG  
TTAGGGGCAATGGAATGGACACATCCGATAAAGTTGAAATGTATGTTTTAATCTTTCACAGAAGTATTACACT  
TGAATATTTAAAAACAAAACCTTTAAACTTCCTATAGGTTTATGATGTTTGTTCATTTATATGGACATAATCC  
TTCATAGCTCAGTTTATATGCCATTGTTGTATTAGAAGGGATCAAAATCCTATGGAACAAAGTAGCTTTGGCAAG  
TTGGCAGTTTGTGCTCTCAGCTGTTAACTTATGTAATGGATGTTTGCACCTGAAAACACTATAAAAAATCCA  
GTGGTTGTTTAAAAAGTCCATTTGTCATAATTCCATTAGGTTCTCCAACCTTCTCTTGAATATCATTGTGAC  
CATTTTTACTGTTAGAATAAAGAGGTGACACCATAAAGTCTGCTGATAATGAGAGTAGTTTCAAGACAGCTGTGA  
TTGAAATATGGTCGCTATTTACAGTTTTTCAGGGAAAAGTTATACTTTCTATGTTAATAAAGAGCTGAAGTGGT  
CTACAGTTAATGTGACATGTAGGATGATGATATTTTTAAATACATTTGTTGCTAAAAAGTTTTTAGGCCAGT  
GCAAAATATGCAGTAGAAGTTGTGTGCAAAAGGAATTATAACCCATACTTTAAAAATGCTTAATCCCTCATATT  
CAATTTTATCAAGCCTTGATACTTCTGCTTAAATGTAATTCAATCCTTGGTTGTTATGGCAACAGAAACCCAA  
CAAAAAGACAGACTCTGGTACTATGGTAACAGAGCCACTTTATCATTGGTCAAAATTTGGCATTATGATTAGCT  
TTGTAGAAGTACCTGTTTATTTGGCAATGCTGTTAAAGGATCATTTGCGTTTCAGACTTCAAAGTTGATTAAATA  
AATTTAATCTTAACTTTTATTCACTGGAATCAAAACGATGGTTGGTACTGTGTTTACTGTTTAAATGAAGTAC  
TAAAGCCCTGAGAAGTGCACCTCATTTCTTTATCCAGAAATGTGCTTATATATTTTCTGTCAGGTTTAAAAA  
GATGTTTTAATTCATAAATTATTGTTTTTCAATGACATTAAAGACTGTGATATTG

3636/6881  
**FIGURE 3350**

TTAGCTTGTTGGGGACGGTAACCGGGACCCAGTGTCTGCTCCTGTCACCTTCGCCTCCTAATCCCTAGCCACTAT  
GCGTGAATGCGTCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGTCTGCTGGGAGCTCTACTGCCT  
GGAACATGGCATCCAGCCCAGTGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTCCTTCAACAC  
CTTCAGTGAGACGGGTGCTGGCAAGCATGTGCCCCGGGCTGTGTTGTAGACTTGGAACCCATGGTCATTGATGA  
AGTTTGCACTGGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAGGAAGATGCTGCCAATAA  
CTATGCCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTTGGACCGAATTGCAAGCTGGCTAA  
CCAGTGCACTGGTTTTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGTTCTGGGTTACCTCCCT  
GCTCATAGAACGTCICTTAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCAATTACCCAGCGCCCCAGGT  
TTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCTGGAGCACTCTGATTGTGCCTT  
CATGGTAGACAATGAGGCCATCTGTGACATCTGTTGTAGAAACCTCAATATCGAGCGCCGTGCATGCTGAGCAAC  
ACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAG

3637/6881  
**FIGURE 3351**

MRECVSIHVGQAGVQIGNVCWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFSETGAGKHVPRAVFVDLEPMVID  
EVCTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLANQCTGFQGFVHFSFGGGTSGGFTS  
LLIERLLVDYGKKSKLEFSNYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMVDNEAICDICCRLNIERPTYTN  
LNHLISQIVSSITASLRFDGALNVDLTEFQTNLVPYSHIHPLATYAPVISA EKAYHEQLSVAEITNASFE PANQ  
MVKCDPRHGKYMCCLLCHGDVVPKDANAAIATIKTKRSIQFVDWCPTGFKVGINYQSPTVVPGGDLAMVQSAC

3638/6881  
**FIGURE 3352**

GGGACGGTAACCGGGACCCAGTGTCTGCTCCTGTACCTTCGCCCTCCTAATCCCTAGCCACTATGCGTGAATGCG  
TCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGTCTGCTGGGAGCTCTACTGCCTGGAACATGGCA  
TCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTGTGTTTGTAGACTTGAACCC  
ATGGTCATTGATGAAGTTTGCCTGACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAGGAA  
GATGCTGCCAATAACTATGCCCCAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGAATT  
CGCAAGCTGGCTAACCAGTGCACTGGTTTTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGTTCT  
GGGTTACCTCCCTGCTCATAGAACGTCTCTTAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCAATTAC  
CCAGCGCCCCAGGTTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCCTGGAGCAC  
TCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTGTGACATCTGTTGTAGAAACCTCAATATCGAGCGCCCA  
ACCTACACTAACCTTAACCACCTTATTAGCCAGATTGTGTCCTCTATCACTGCTTCCCTGTCATTTCTGCTGAGA  
AAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTCCTTTGAGCCAGCCAACCAGATGGTGAAAT  
GTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCATTGTGCCATGGTGATGTGGTTCCCAAAGATGCCAATG  
CTGCCATTGCCACCATCAAGACCAAGCGTAGCATCCAGTTTGTAGATTGGTGCCCCACTGGCTTCAAGGTTGGCA  
TCAACTACCAGTCTCCCACTGTGGTGCTGGTGGAGACCTGGCCAAGGCGAGTTTTTCAGAGCCCCGTGAAGACAT  
GGCTGCCCTTGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAAGAGAGGA  
ATACTAATCCATTCCTTTTGGCCCTGCAGCATGTCGTGCTCCAGAAATTCAGCTTCAGCTTAGCTGACAGACAT  
TAAAGCTTTCTGGTTAGATTTTCATTTGGTGATCATGCTTTTCCATGTGTACCTGTAATGTTTTTCCATCATGT  
CTCAAAGTACAGT

3639/6881  
**FIGURE 3353**

CACTGTTGCCTATCAGAAGTCAATTCAAACGACCTGCCCCCAGAGAGACAAAAGATACAGATATTGTGGATGAAG  
CATCTATTACTTCAAGGCCAATATCTTCTTCAAAAACTATGAAATTAAGAATGAAGCTGATAGGACCTTGATAAT  
ATATAATGATATATATAACTCTCTACATTTCTGAATGTCTGAAGAACTCCAAAAGTGCAATTCCTGGAAAGC  
CTGGTTTTCTACTTAACGCAATTTATGCCAAACCTGCAAACAAACAGGAAGATGAAGTGATGAGAGCCTATTTAC  
AACAGCTAAGGCAAGAGACTGGACTGAGACTTTGTGAGAAAGTTTTCGACCCTCAGAATGATAAACCAGCAAGT  
GGTGGACTTGCTTTGTGAAGAGACAGTTCATGAATAAGAGTCTTTCAGGACCTGGGCAGTGAAGGGAGCCCGGC  
AGCCACCGTCTC

3640/6881  
**FIGURE 3354**

MIYITLYISECLKKLQKCNSPGKPGFLLNAIYAKPANKQEDEVMRAYLQQLRQETGLRLCEKVDFPQNDKPSKWW  
TCFVKRQFMNKSLSGPGQ

3641/6881  
FIGURE 3355A

AGGGGCACTATGGCAGACAAAGTTAGGAGGCAGAGGCCGAGGAGGCGAGTCTGTTGGGCCTTGGTGGCTGTGCTC  
TTGGCAGACCTGTTGGCACTGAGTGATACACTGGCAGTGATGTCTGTGGACCTGGGCAGTGAGTCCATGAAGGTG  
GCCATTGTCAAACCTGGAGTGCCCATGGAAATTGTCTTGAATAAGGAATCTCGGAGGAAAAACCCGGTGATCGTG  
ACCTGAAAGAAAAATGAAAGATTCTTTGGAGACAGTGCAGCAAGCATGGCGATTAAAGATCCAAAGGCTACGCTA  
CGTTACTTCCAGCACCTCCTGGGGAAGCAGGCAGATAACCCCCATGTAGCTCTTTACCAGGCCCGCTTCCCGGAG  
CACGAGCTGACTTTTGACCCACAGAGGCAGACTGTGCACTTTTCAATCAGCTCGCAGCTGCAGTTCTCACCTGAG  
GAAGTGTGGGCATGGTTCTCAATTATCTCGTTCTCTAGCTGAAGATTTTGAGAGCAGCCCATCAAGGATGCA  
GTGATCACCGTGCCAGTCTTCTTCAACCAGGCCGAGCGCCGAGCTGTGCTGCAGGCTGCTCGTATGGCTGGCCTC  
AAAGTGCTGCAGCTCATCAATGACAACACCGCCACTGCCCTCAGCTATGGTGTCTTCCGCCGAAAGATATTAAC  
ACCACTGCCCCAGAATAICATGTTCTATGACATGGGCTCAGGCAGCACCGTATGCACCATTGTGACCTACCAGATG  
GTGAAGACTAAGGAAGCTGGGATGCAGCCACAGCTGCAGATCCGGGGAGTAGGATTTGACCGTACCCTGGGGGGC  
CTGGAGATGGAGCTCCGGCTTCGAGAACGCCTGGCTGGCCTTTTCAATGAGCAGCGCAAGGCTCAGAGAGCAAAG  
GATGTGCGGGAGAACC CGCGTGCCATGGCCAAGCTGCTGCGTGAGGCTAATCGGCTCAAACCGTCTCTAGTGCC  
AACGCTGACCACATGGCACAGATTGAAGCCTGATGGATGATGTGGACTTCAAGGCAAAAGTGACTCGTGTGGAA  
TTTGAGGAGTTGTGTGCACTTGTGTTGAGCGGGTGCTGGGCCTGTACAGCAGGCCCTCCAGAGTGCCGAAATG  
AGTCTGXXXXXXXXXXXXXGTGATCCTGGTGGGTTGGGCCCACTCCGGGTCCCCAGAATTCAAGAAGGTGCTG  
CTGAAGXXXXXXXXXXGAGGAGCTGGGGAAGAATCAATGCAGATGAAGCAGCCGCCATGGGGGAGTGATAC  
CAGGCAGCTGCGCTCAGCAAAGCCTTTAAAGTGAAGCCATTGTGCTCCGAGATGCAGTGGTCTACCCCATCCTG  
GTGGAGTTACAGAGGGAGGTGGAGGAGGAGCCTGGGATTACAGCCTGAAGCACAATAACGGGTACTCTTCTCT  
CGGATGGGGCCCTACCTCAACGCAAAGTCATCACCTTTAACCGCTACAGCCATGATTTCAACTTCCACATCAAC  
TACGGCGACCTGGGCTTCTGGGGCCTGAAGATCTTCGGGTATTTGGCTCCCAGAATCTGACCACAGTGAAGCTA  
AAAGGGGTGGGTGACAGCTTCAAGAAGTATCCTGACTACGAGTCCAAGGGCATCAAGGCTCACTTCAACCTGGAT  
GAGAGTGGCGTGCTCAGTCTAGACAGGGTGGAGTCTGTATTGAGACACTGGTAGAGGACAGCGCAGAAGAGGAA  
TCTACTCTCACAAACTTGCCAACACCATTCCAGCCTGTTTGGAGGCGGTACCACACCAGATGCCAAGGAGAAT  
GGTACTGATACTGTCCAGGAGGAAGAGGAGAGCCCTGCAGAGGGGAGCAAGGACGAGCCTGGGGAGCAGGTGGAG  
CTCAAGGAGGAAGCTGAGGCCCACTGGAGGATGGCTCTCAGCCCCACCCCTGAACCTAAGGGAGATGCAACC  
CCTGAGGGAGAAAAGGCCACAGAAAAAGAAATGGGGACAAGTCTGAGGCCAGAAACCAAGTGAAGGCGAGAG  
GCAGGGCCTGAGGGCGTGCCTCCAGCCCCAGAGGGAGAGAAGAAGCAGAAGCCCGCCAGGAAGCGGCGAATGGT  
AGAGGAGATCGGGGTGGAGCTGGTTGTTCTGGACCTGCCTGACTTGCAGAGGATAAGCTGGCTCAGTCGGTGCA  
GAAACTTCAGGACTTGACACTCCGAGACCTGGAGAAGCAGGAACGGGAAAAAGCTGCCAACAGCTTGAAGCGTT  
CATATTTGAGACCCAGGACAAGCTGTACCAGCCGAGTACCAGGAAGTGTCCACAGAGGAGCAGCGTGAGGAGAT  
CTCTGGGAAGCTCAGCGCCGCATCCACCTGGCTGGAGGATGAGGGTGTGGAGCCACCACAGTGTGTTGAAGGA  
GAAGCTGGCTGAGCTGAGGAAGCTGTGCCAAGGGCTGTTTTTCGGGTAGAGGAGCGCAAGAAGTGCCCCGAACG  
GCTGTCTGCCCTCGATAATCTCCTCAACCATTCCAGCATGTTCTCAAGGGGGCCCGGCTCATCCAGAGATGGA  
CCAGATCTTCACTGAGGTGGAGATGACAACGTTAGAGAAAGTCATCAATGAGACCTGGGCCTGGAAGATGCAAC  
TCTGGCCGAGCAGGCTAAGCTGCCCGCCACAGAGAAGCCTGTGTTGCTCTCAAAGACATTGAAGCTAAGATGAT  
GGCCCTGGACCGAGAGGTGCAGTATCTGCTCAATAAGGCCAAGTTTACCAAGCCCCGGCCCCGGCTTAAGGACAA  
GAATGGGACCCGGGCAGAGCCACCCCTCAATGCCAGTGCCAGTGACCAGGGGGAGAGGTATCCCTCCAGCAGG  
CCAGACTGAAGATGCAGAGCCCATTTCAAGACCTGAGAAAGTAGAGACTGGATCCGAGCCAGGAGACTGAGCC  
TTTGGAGTTAGGAGTCTGGAGCAGAACCTGAACAGAAAGAACATCGACAGGACAGAAGCGGCCCTTTGAAGAA  
CGACGAACTATTACCCCACTCTGTTTTCCCAATCATCTCCACCCCTTCCCCCACTTCTATTATTTAA  
CATCGAGGGTTGGGGGAGGGTTGGTCTGCCCTCGGCTGGAGTTCCTTTCTACCCCTGTGATTTGGAGGTGTG  
GAGAAGGGGAAGGGAGGGACAGCTACTGGTTCTTCTGCAGTACCTCTGTGGTTAAAAATGGAAGTGTCTCCT  
CCCCAGCCCCACTCCTGTTCCCTACCCATATAGGCCAAATTTGGGAAAATCACTATTATTTCTGAATCCTTTG  
CCTGTGCGGTAGGAAGAGAATGGCTGCCAGTGGCTGATGGGTCCCGGTGATGGGAAGGGTATCAGGTTGCTGGGG  
AGTTTCCACTCTTCTGCTGATTGTCTCTCCCTCCCTTCTCTCCACCATGCGATGAGCATCCTTTAGGCC  
AGTGTCTGCAGAGCCTCAGTTACCAGGTTTGGTTTCTGAGTGCCTATCTGTGCTCTTCTCTCCCTCTGCGGGCTT  
CTCTTGCTCTGAGCCTCCCTTCCCCATTCCCATGCAGCTCCTTTCCCTGGGTTTCTTGGCTTCTCTGAGCAA



3642/6881  
**FIGURE 3355B**

ATTGGGCAGTTCTCTGCCCCCTTGCCCTAAAAGCCTGTACCTCTGGATTGGCGGAAGTAAATCTGGAAGGATTCTCA  
CTCGTATTTCCACCCCTAGTGGCCAGAGGAGGGAGGGGCACAGTGAAGAAGGGAGCCCACCACCTCTCCGAAGA  
GGAAAGCCACGTAGAGTGGTTGGCATGGGGTGCCAGCATCGTGCAAGCTCTGTCATAATCTGCATCTTCCCAGCA  
GCCTGGTACCCAGGTTCCCTGTAACCTCCCTGCCCTCCTCCTCTCTCTGCTGTTCTGCTCCTCCCAGACAGAGCCT  
TTCCCTCACCCCTGACCCCTGGGCTGACCAAAATGTGCTTTTCTACTGTGAGTCCCTATCCCAAGATCCTGGGG  
AAAGGAGAGACCATGGTGTGAATGTAGAGATGCCACCTCCCTCTCTCTGAGGCAGGCCTGTGGATGAAGGAGGAG  
GGTCAGGGCTGGCCTTCCCTCTGTGCATCACTCTGCTAGGTTGGGGGCCCCGACCCACCATACCTACGCCTAGGG  
AGCCCGTCCCTCCAGTATTCCGTCTGTAGCAGGAGCTAGGGCTGCTGCCTCAGCTCCAAGACAAGAATGAACCTGG  
CTGTGTCAGTCATTTTGTCTTTTCTTTTTTTTTTTTTTTTGGCACATTGGCAGAGATGGGACCTAAGGGTCCCAC  
CCCTCACCCACCCACCTCTTCTGTAIGTTTGAATCTTTTCTAGTAGCTGTTGATGCTGGTTGGACAGGTTTGA  
GTCAAATTGTACTTTGCTCCATTGTTAATTGAGAACTGTTTCAATAAAATATCTTTTCTAC

3643/6881

**FIGURE 3356**

MADKVRRRQPRRRVCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMETVLNKESSRRKTPVIVTLK  
ENERFFGDSAASMAIKNPKATLRYFQHLLGKQADNPHVALYQARFPEHELTFDPQRQTVHFQISSLQFSPEEVL  
GMVLNYSRSLAEDFAEQPIKDAVITVPVFFNQAERRAVLQAARMAGLKVQLINDNTATALSYGVFRRKDINTTA  
QNIMFYDMGSGSTVCTIVTYQMVKKEAGMQPQLQIRGVGFDRTLGGLEMEELRLRERLAGLFNEQRKGQRAKDVR  
ENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEELCADLFEVPGPVQQALQSAEMSLD  
EIEQVILVGGSTRVPRVQEVLLKAVGKEELGKNINADEAAAMGAVYQAAALSKAFKVKPFVVRDAVVYPILVEFT  
REVEEEFPGIHSCLKHNRVLF SRMGYPYQKRVITFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVG  
DSFKKYPDYESKGIKAHFNLDSEGLSLDRVESVFETLVEDSAEEESTLTKLGNTISSLFGGGTTTPDAKENGTD  
VQEEESPAGSKDEPGEQVELKEEAEPVEDGSQPPPEPKGDATPEGEKATEKENGDKSEAQKPSKAEAGPE  
GVAPAPEGEKKQKPARKRRMVVEIGVELVVLDPDLPEDKLAQSVQKLQDLTLRDLEKQEREKAANSLEAFIFET  
QDKLYQPEYQEVSTEEQREEISGKLSAASTWLEDEGVGATTVMLEKLAELRKLQGLFFRVEERKKWPERLSAL  
DNLLNHSSMFLKGARLIPMDQIFTEVEMTTLEKVINETWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDR  
EVQYLLNKAFTKPRPRPKTRMGPGQSHPSMPVPVTRGKKVIPAXXXXXXXXXXXXXXXXXXXXXTEPLELG  
GPGAEPEQKEQSTGQKRPLKNDL

3644/6881  
**FIGURE 3357**

GGAGGGCTCAAGGGGCTCTAAGAGGGAAAAGCTCCCCACACCCCCAGATGCTGCTCCTCCTCCCGGCTAGAGGGGA  
ACCCAACACCCACCAGTGAAATCTGATGCAGCTGGGAGTTTGGACCTTGGGTCTAGACAGCTGGTGCGCCCAAGA  
GGTAGGGGGAGGGGTGCGGCTTCTCCCCAGTTCCAGGGAGTCTTGTTTGTAAAGCGGGGCCCTGGGCAGTGTTT  
TCCTGCTGAGGGTGGTTTTACATTTTTTTTTCTCATTGGCCACAGAGAGTGGAGTTGGCCTAGCTCTGACGCGT  
CCCCCTCTTATCCCCAATGTGCCCCCTCCATTAGGGGCTCCAGGTGGGCTCCAGCCACACTTGTCTCTGCCTC  
TGCTGACACGTGCACACACACACATGCACACACTGCTCCTCTCTGCCTGCTTTCCCCTGGAGTCCCATGCCCT  
GCCCCATCCAGACACTGCCAAGGCCACCCGCTCTATTTCCACCTCATTCCCCCTTTAAGCTGAGAATGGGGTCT  
GCCTATAGAAGCTTCCAGAGACAGCTGAGACTGGGTCCCCGGTGCCTCCACCCTAGGATCTCAGGCCTGCCCCAA  
ACTGCTTCTTACAGCGTGGAGGTTTTCTCTGATTTCTCCCTTATCTAGCAACACTTGTTTCTTTTGGCTAGTCAGG  
GCTGGGATCCAGGGGGATCCACCTGCAGGAGTCAGAGGTAAGAAGCATCCACACGGAGGGTAGTGGGGAAGGA  
AGCCACATGGCAGAAGCTCTGCAAACACAGTCCGAGGGACTGAGGAGTCCATACAATGCCTCACACACAAAGGC  
CATTGTCAAAGCCTCGGGCCTGGCAGAAAGTGAGGGGGGTGGGGCCGCTAGGCCACCTCCTGCTCAGCCACCCCT  
GGTCTCTATTCTGGGATGAGGGGGAGGGCCTAGGAGAAGCCCTCCCTTTTCAGTGCAGATTCCCTTCTTGAATGGG  
ACATTGAGTTCTATCAGCCACCCAGACTGGGTCTTCCATGTATATAATGGAGGAAGACCCCTCCAGCCCTC  
TCAGTCCCCCAACTCAAAGTGCTCAGTTCTCCATCTGCTCCAGATCCCTGGCACTCTAGACAGGCATGCC  
ATGGGAAGGACCCTGGGATGGAGAGGCAGGCTTCGCGGCCCTTCATGCCTGCCACTGGGATTCCAGTTAACTCA  
CCCCAGGTGTGAGGGGCTCTGCAGGATGGCAAGTGTGGGGAGGAGGAGGCAGACCACTCTGTGCCCCACGGG  
CACTGACCCACCCCTGCCATAGGTTTCTAAAGGGAGGXCCCCAAAACCTCTCCCTCCCTCCCTCCCTGGTGC  
TGCTATTGAACCCCTGCCAGCTCCATTTCTGCCCTGGCAACCCTGGGCCAGCAGGTGGTCTGCTGTTGTCTGG  
CCCTCACTGCCCTGGCCCCAGCCAGGCTGCCAGTAGCCACGTAGCAGAAGTCTGAAGCCATGCCAGCCCTGGT  
GCGGCTCTCCCTCTACACATTTGGGTACTGGATAGGGTGAAGTTAGGGGAGAAAATTGTGGAGTCTTTCCAGC  
CACAGGGCAGAGGGAGGTGGAGGAGCTGGGCTGCTTTTCCAGCAGTATTAGTGTCCCCCAGGACAGGGGACCTT  
TTCCACATTACATCACTGCCCCATCCCACCTTACAACACTCTGCCCCCTCTGCTTGGTCCCTTTTCCCCCAGGC  
AGGAGGCAATCCAGGGGCTGCCTGATAGAGGCATTTCTGTCCCTGTCTCCTCCTGCATCTCCTTTATCCTGC  
ACTGCCACCTCTATTCCCCATTCTGTGTTGGACTTTGAAGGCCCAAGCCAGCCAAAGCACTGAGTTCCCCCT  
TAAGACACCTCCACACCTCCCCACAAGCAAAGCACAAATTTTGGGTCCATGTAGCATGGGCCACGTAGGAGGC  
TCCTGACTTGCCAGGGGCCAGCCTCAGCATACCCACCGAGCAGCTGCCAGCCTGGGCTGAGGGTGGGCATGAGG  
CAGGAGTCAGCACTTGACCTAGGGATGTGAGGTTTTCTGTGCCCAAGTTTGTGGGAAGGTGGGCACTACTGCT  
GGGCCCCAGACACAGCCAGCTGGCAAAAGGGAGGTCTAGCCAGCAGAGAGATGAGGACATTTTGTCTCTCCTT  
CATGCCACAGCATGAGCTGAGCTTCTGCTTGTGGAATGAAATAAACTTGGTATGAATTGTGCCAAGGCCTC  
CCAGTTGTATCTGCTCTTGTGCTCCCTGTCTTGTCCCCCACCCACACCCATGCCCTGTTTCTTTA  
CAGATTTTGATATTGTTCTAATGTGTAATAGAACCAGCCGAGTCCCTTTTATCAGAAGGGTCTGAAAAGCAGCA  
GCACAGAGTAGGTGAACACAGGCCTGCAAGTGCAGCACCTCAGACCCAGTACGTGTGCCACAGTGGACACACT  
CACACCTCCAACACACCCACGCGCAGGCATGTGTACACGCATGTACACACGCATGCATGCACAGCCAGATGGCCA  
CTCAGCACAGATGTGGCAGAGGGAATGGTCTGATCCTGTGAAAGCCATTAAGGAGAAACGAATTTCCAGTGCC  
CGGGCTGCAAGAGAGCCTTATAGGGGCCCTGTTTCTGGGCATGCGCTTCTCTGCCAGCCAACCCCACTTGCC  
CAAGTCACTGGTGCAATAACTTTTCTGCCTTCTCAGAGCAGAGAAATTGGGAATTGTGTTAGGTGGGTGTGGGC  
AGCTCTGCTGAGCCAAGCAGACACGGATGTCCCTCTTCTGGGAGGAGGGTAGTGTCCCAGGCCTCAGGAGTCC  
AGACAGAGACCCCCAAAGCCTGACTGCCAACAGAAACCTCTCCTAGTGAGGGGCAGGTGGGTGTGCCCCAGGTC  
CCCACACCCACAGGGAGGCTTACACACTGCCAGTACCGGGGATGCCAGGAGGCAGGCCCTCTGCTGCTGCCA  
CTGCTGCCAACACTGCCAGCTTGTGAGGCCAGGAGGAGCCCTGTCCACTCGGTGCTGCTGCTCTTCTGACCC  
CTGCTGTGAGGAATGGGATTCTTGGTGCAGAAAAATTGGTTTTCTTTTTTGTATAAATGAAAAGAATCCAGGAGA  
AGCTGCCACCCCTCCCTCCAGCGTGATGCGCTACCTTGCTTCGGCGTCTTGTGCGCCTTTCCGCCTTTGGTCCA  
GGGACAGCCACAGCATCTCCTGGTCTGACCTGGGGGTGTTTGCATCACCCCTTTTACTTGTATTAAAAA  
AAATGATGGGTTGAAAATGTACTGAGGATTAAAAATGTACTTTTTTATAAATAAAGTGTTTAAAC

3645/6881  
**FIGURE 3358**

CAGGCATCCAAAGCTGAGGTCGCTCCTACGGCCTGGGCTCGCCTTCGCTTTAGAGATGTTTGGCCTCTTCCCTCC  
CAAACAGCCCATCTTCAAACCTGGACTCTTGGACTGGCACCTGGCCACCTTTCCTCTACCAAGACTCCACTTC  
CGTCTTACCCACTTCTTCCCTCAGATTCTTGGTACCCCTGGGTTGGAGACTGCTCATTTTCCCTTCCAAATTAATC  
CCAGACCCCTTAAATATTGACAACCTTGACAACCCCCAACCGAGGAGCCAGACTTTGTTTTGGACTAACTTCC  
ATAGCCCTATCATGGAGGCAGTGTAACCTGGTAGTGAATGGGTGGGCCTGGTGTGCTGGACGTGCTGACCTTGGTGT  
TGGACCTCAACTTCTGTGGTGTCTTCCCTCCTGGCTTCCCTGGCCTGGCTCCTGGCCTTCGTCTACAACCTGC  
CGCACACGGTACTGACTAGTCTTCTGCACTTGGGCCGCGGAGTCTTGCTTTTCATTGCTGGCCTTGATCGAAGCCG  
TGGTCCGGTTCACATGTGGGGGCTTGCAGGCCCTGTGTACTCTGCTGTATAGCTGCTGCTCTGGCCTAGAGAGCC  
TAAAGCTCCTGGGGCACCTGGCCTCTCATGGGGCACTGCGGAGCAGGGAGATACTGCACCGGGCGTCTCAATG  
TGGTCTCCAGTGGCCATGCTTTGCTGCGCCAGGCCTGTGACATCTGTGCCATTGCCATGAGCCTGGTGGCTTATG  
TGATCAACAGCCTGGTCAACATCTGCCTCATCGGCACTCAGAACCTCTTTTCCCTGGTGTGGCCCTGTGGGATG  
CAGTGACCGGGCCTCTGTGGAGGATGACAGACGTAGTGGCTGCCTTCCCTAGCCCACATTTCCAGCAGTGTGTGG  
CCATGGCCATCCTCCTTTGGACACCTGCCAACTAGCCCTGGAGCTGCTGGCCTCAGCTGCCCGCCTCCTGGCCA  
GCTTTGTGCTTGTCAATCTCACTGGCTTGGTGTGTGCTAGCTTGTGTGCTGGCAGTGACGGTGACTGTGTGCATC  
CGGACTTCACCTGAGGCTGGCTACCCAGGCCTCAGCCAGCTCCATGCCCCGCCATCCTACCACCGTCTTCGAG  
AGGATGTCAIGCGGCTCTCTCGCCTAGCACTGGGCTCAGAGGCCTGGCGCCGAGTCTGGAGCCGCACTGTGCAGC  
TGGCGAGTTGGCCAAACCGGGGAGGGGCACCTGGAGCTCCCCAGGGTGACCCTATGAGGGTATTCTCAGTTAGGA  
CCCGGAGACAGGACACTCTTCCCTGAAGCGGGGCGCAGATCAGAGGCAGAAGAGGAGGAGGCCAGGACCATCAGAG  
TGACACCTGTGAGGGGCGAGAGAGGCTCAATGAGGAGGAGCCTCCAGGTGGGCAAGACCCTTGGAATTTGCTGA  
AGGAGCAAGAGGAGCGGAAGAAGTGTGTATCTGCCAGGACCAGAGCAAGACAGTGTGCTCCTGCCCTGCCGGC  
ATCTGTGCTGTGCCAGGCCTGCACTGAAATCCTGATGCCACCCCGTCTACCACCGCAATTGCCCGCTCTGCC  
GCCGGGGCATCCTGCAGACCCTCAATGTCTACCTCTGAAGCCTCCTTCCCTGCCTGCCACCCCTCCATGCTCCA  
CGCAGGCACTCACGCTAGGACAGCATTAAACAC

3646/6881

## FIGURE 3359

GGCACGAGGGGCCACCGAGGCGCTGTCCCTGACCACCAGCACGAGACCCCTTTCTATCGCGCCAGTCCTGTGGTC  
TCCGCACCTCTCCAGCTCCTGCACCCCCGCCCCCGTGGTTCCAGCCGCACAGTAGCGTGTCTGGGTAGCGTG  
AGGACCCACGGGGCTGAGCAGGTGCCACGAGCCCGCCGCTCTTCGCCGCCGCCGCTCTCTCTCTCCCCGCC  
CGCCGCTTGGCCCTCCCTACCAGGCTGAGCCTCTGGCTGCCAGAAGCGCGGGGCTCCGGGAGAATACGTGCGG  
TCGCCCCGCTCCGCGTGCCTACGCCCTCTGCTCCAGTTGCTTTCCCAATTGAGCGGAAAAAGCCGGGGCATGTTG  
CCGGGGCCCTGGGCGGGACGGTTGTGCCCTGCAGCCGAAGCCCGCGGGGCACCTTCCCGCCACAGAGCTGCCC  
AGTCCCTCTGCTTGGCGCCCTGCCAACGTCCACAGGACACTGGGTCCCCTTGGAGCCTCCCAAGGCTTAATGA  
TTGTCCAGAAGGCGGCTATAAAGGGAGCCTGGGAGGCTGGGTGGAGGAGGAGCAGAAAAACCCAACTCAGCAG  
ATCTGGGAAGTGTGAGAGCGGCAAGCAGGAAGTGTGGTCAGAGGCTGTGCGTCTTGGCTGGTAGGGCCTGCTCTT  
TTCTACCATGGCAGCCAGGGCTATGGCTATTATCGCACTGTGATCTTCTCAGCCATGTTTGGGGCTACAGCCT  
GTATTACTTCAATCGCAAGACCTTCTCCTTTGTATGCCATCATTGGTGGAGAGATCCCTTTGGACAAGGATGA  
TTTGGGGTTTCATACCAGCAGCCAGTCGGCAGCTTATGCTATCAGCAAGTTGTCAAGTGGGGTGTGTCTGACCA  
GATGAGTGCTCGCTGGCTCTTCTCTTCTGGGCTGCTCCTGGTTGGCTGGTCAACATATTCTTTGCCTGGAGCTC  
CACAGTACCTGTCTTTGCTGCCCTCTGGTTCCCTTAATGGCCTGGCCAGGGGCTGGGCTGGCCCCCATGTGGGAA  
GGTCTCGCGAAGTGGTTTGAGCCATCTCAGTTTGGCACTTGGTGGGCCAICCTGTCAACCAGCATGAACCTGGC  
TGGAGGGCTGGGCCCTATCCTGGCAACCATCCTTGGCCAGAGCTACAGCTGGCGCAGCAGCTGGCCCTATCTGG  
GGCACTGTGTGTGGTTGTCTCCTTCTCTGCTCCTGCTCATCCACAATGAACCTGCTGATGTTGGACTCCGCAA  
CCTGGACCCCATGCCCTCTGAGGGCAAGAAGGGCTCCTTGAAGGAGGAGACCCCTGCAGGAGCTGCTGCTGTC  
CCCTTACCTGTGGGTGCTCTCCACTGGTTACCTTGTGGTGTGGAGTAAAGACCTGCTGTACTGACTGGGGCCA  
GTTCTTCTTATCCAGGAGAAAGGACAGTCAGCCCTTGTAGGTAGCTCCTACATGAGTGCCCTGGAAGTTGGGGG  
CCTTGTAGGCAGCATCGCAGCTGGCTACCTGTGACACGGGCCATGGCAAAGGCGGGACTGTCCAACTACGGGAA  
CCCTCGCCATGGCCTGTTGCTGTTTCATGATGGCTGGCATGACAGTGTCCATGTACCTCTTCCGGGTAAACAGTGAC  
CAGTGAATCCCCAAGCTCTGGATCCTGGTATTGGGAGCTGTATTGGTTTCTCCTCGTATGGCCCCATTGCCCT  
GTTTGGAGTCATAGCCAACGAGAGTGCCCTCCCAACTTGTGTGGCACCTCCACGCCATTGTGGGACTCATGGC  
CAATGTGGGCGGCTTTCTGGCTGGGCTGCCCTTACGACCATTTGCCAAGCACTACAGTTGGAGCACAGCCTTCTG  
GGTGGCTGAAGTGATTTGTGCGGCCAGCACGGCTGCCTTCTTCTCCTACGAAACATCCGCACCAAGATGGGCCG  
AGTGTCCAAGAAGGCTGAGTGAAGAGAGTCCAGGTTCCGGAGCACCATCCACGGTGGCCTTCCCCCTGCACGCT  
CTGCGGGGAGAAAAGGAGGGGCTGCCTGGCTAGCCCTGAACCTTCACTTTCCATTTCTGCGCCTTTTCTGTCA  
CCCGGTGGCGCTGGAAGTTATCAGTGGCTAGTGAGGTCCAGCTCCCTGATCCTATGCTCTATTTAAAGATAA  
CCTTTGGCCTTAGACTCCGTTAGCTCCTATTTCTGCTTTCAGACAAACAGGAACTTCTGCAGTCAGGAAGGCT  
CCTGTACCCTTCTTCTTTTCTAGGCCCTGTCTGCCCCGATCCTACCCCATCCCACTGAAGTGAGGCTATCC  
CTGCAGCTGCAGGGCACTAATGACCCCTTGACCTTCTGCTGGGTCTTAAGTCTCTCAGCAGTGGGTGACTGCTGTT  
GCCAATACCTCAGACTCCAGGAAAGAGAGGAGGCCATCATTCTCACTGTACCACTAGGCGCAGTTGGATATAGG  
TGGGAAGAAAAGGTGACTTGTATAGAAGATTAAACTAGATTTGATACTGAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAA

3647/6881  
**FIGURE 3360**

MAAQGYGYRTVIFSAMFGGYSLYYFNRTFSFVMPSLVEEIPDKDDLGFITSSQSAAYAISKFVSGVLSQMS  
ARWLFSSGLLLVLVNIFFAWSSTVPVFAALWFLNGLAQGLGWPPCGKVLRKWFEP SQFGTWAILSTSMNLAGG  
LGPILATILAQSYSWRSTLALSGALCVVVSFLCLLLIHNEPADVGLRNLDPMPSGKKGSLKEESTLQELLSPY  
LWVLSTGYLVVFGVKTCCTDWGQFFLIQEKQSALVGSSYMSALEVGGLVGSIAAGYLSDRAMAKAGLSNYGNPR  
HGLLLFMMAGMTVSMYLFRTVTSDSPKLWILVLGAVFGFSSYGPIALFGVIANESAPPNLCGTSHAIVGLMANV  
GGFLAGLPFSTIAKHYSWSTAFWVAEVICAASTAAFFLLRNIRTKMGRVSKKAE

3648/6881  
**FIGURE 3361**

CTTCCTTTTTGTCCGACATCTTGACGAGGCTGCGGIGTCTGCTGCTATTCTCCGAGCTTCGCAATGCCGCCTAAG  
GACGACAAGAAGAAGAAGGACGCTGGAAAGTCGGCCAAGAAAGACAAAGACCCAGTGAACAAATCCGGGGGCAAG  
GCCAAAAGAAGAAGTGGTCCAAAGGCAAAGTTCGGGACAAGCTCAATAACTTAGTCTTGTTTGACAAAGCTACC  
TATGATAAACTCTGTAAGGAAGTTCCCAACTATAAACTTATAACCCAGCTGTGGTCTCTGAGAGACTGAAGATT  
CGAGGCTCCCTGGCCAGGGCAGCCCTTCAGGAGCTCCTTAGTAAAGGACTTATCAAACCTGGTTTCAAAGCACAGA  
GCTCAAGTAATTTACACCAGAAATACCAAGGGTGGAGATGCTCCAGCTGCTGGTGAAGATGCATGAATAGGTCCA  
ACCAGCTGTACATTTGGAAAAATAAACTTTATTAAATCAAAAAAAAAAAAAAAAAAAAAAAAAA

3649/6881  
**FIGURE 3362**

MPPKDDKKKKDAGKSAKKDKDPVNKSGGKAKKKKWSKGKVRDKLNNLVLFDKATYDKLCKEVPNYKLITPAVVSE  
RLKIRGSLARAALQELLSKGLIKLVSKHRAQVIYTRNTKGGDAPAAGEDA



3650/6881  
**FIGURE 3363**

GAAGAAAACAGCCCAAAGATGAGAGTGATTGCGGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGAC  
AGTGTGGTGGCAACATTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGAC  
AAGATTCTTGATACTGCACTCTCTAAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAG  
AAGAATGAAGTGGACCTGGTTGTTCACTCCTTGAAGGACCTGCCCAGTGTGCTTCCTCCTGGCTTCACCATCGGA  
GCCATCTGCAAGCGGGAAAACCTCATGATGCTGTTGTCTTTCACCCAAAATTTGTTGGGAAGACCCTAGAAACC  
CTGCCAGAGAAGAGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCCAGCTGCAGAGAAAGTTCCCGCATCTG  
GAGTTCAGGAGTATTCGGGGAAACCTCAACACCCGGCTTCGGAAGCTGGACGAGCAGCAGGAGTTCAGTGCCATC  
ATCCTGGCAACAGCTGGCCTGCAGCGCATGGGCTGGCACAACCGGGTGGGGCAGATCCTGCACCCTGAGGAATGC  
ATGTATGCTGTGGGCCAGGGGGCCTTGGGCGTGGAAGTGCAGCCAAGGACCAGGACATCTTGGATCTGGTGGGT  
GTGCTGCACGATCCCGAGACTCTGCTTCGCTGCATCGCTGAAAGGGCCTTCCTGAGGCACCTGGAAGGAGGCTGC  
AGTGTGCCAGTAGCCGTGCATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGAGGAGTCTGGAGTCTAGAC  
GGCTCAGATAGCATACAAGAGACCATGCAGGCTACCATCCATGTCCCTGCCCAGCATGAAGATGGCCCTGAGGAT  
GACCCACAGTTGGTAGGCATCACTGCTCGTAACATTCCACGAGGGCCCCAGTTGGCTGCCCACTTGGGCATC  
AGCCTGGCCAACCTTGTGCTGAGCAAAGGAGCCAAAACATCCTGGATGTTGCACGGCAGCTTAACGATGCCCAT  
TAACTGGTTTGTGGGGCACAGATGCCTGGGTGCTGCTGTCCAGTGCCTACATCCCGGGCCTCAGTGCCCCATTC  
TCACTGCTATCTGGGGAGTGATTACCCCGGAGACTGAACTGCAGGGTTCAAGCCTTCAGGGATTGCTCACC  
TTGGGGCCTTGATGACTGCCTTGCTCCTCAGTATGTGGGGGCTTCATCTCTTAGAGAAGTCCAAGCAACAGCC  
TTTGAATGTAACCAATCCTACTAATAAACAGTTCTGAAGGT

3651/6881  
**FIGURE 3364**

CGCAGACCTATGAATGAAGATGGAGGGAGAGCTGATGTGAAAGGCCTGGGTCCCGGCCGCGAGAAGGGGCGCCAGA  
CCGAAATCAGCGATCGCGTCTCTCCACCAAAGCCTCCCGGCCAGCGGCCGCGTCTGAAAGAAGAAAACAGCCCA  
AAGATGAGAGTGATTTCGCGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTGGTGGCAACA  
TTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACT  
GCACTCTCTAAGGGATTCACTCAGGCTCTTTCTGTCCGGCAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTT  
GAACATGCCCTGGAGAAGAATGAAGTGGACCTGGTTGTTCACTCCTTGAAGGACCTGCCCCTGTGCTTCCTCCT  
GGCTTCACCATCGGAGCCATCTGCAAGCGGGAAAACCCTCATGATGCTGTTGTCTTTCACCCAAAATTTGTTGGG  
AAGACCCTAGAAACCCTGCCAGAGAAGAGTGTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCCAGCTGCAGAGA  
AAGTTCCCGCATCTGGAGTTCAGGAGTATTGTATCCTTTTAG

3652/6881  
**FIGURE 3365**

ATGTCGGGCGCGGCAAGACTGGCGGCAAGGCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCCGGCCTCCAG  
TTCCCAGTGGGCGGTGTACACCGGCTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGCCGGCGCGCCAGTG  
TACCTGGCGGCAGTGCTGGAGTACCTCACCGCTGAGATCCTGGAGCTGGCGGGCAATGCGGCCCGCGACAACAAG  
AAGACGCGAATCATCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGGC  
GTGACGATCGCCAGGGAGGCGTCCTGCCCAACATCCAGGCCGTGCTGCTGCCCAAGAAGACCAGCGCCACCGTG  
GGCCCGAAGGCGCCCTCGGGCGGCAAGAAGGCCACCCAGGCCTCCAGGAGTACTAA

3653/6881

**FIGURE 3366**

CCCAGAATCCCAGGGAGTGATCAGCGGTGCTGTTTTCTTATCATCCTCTTCTGCTTCATCCCTTTCCCCTTCCT  
GAACTGCTTTGTGAAGGAGCAGTGTAAGGCATTCCCCCACCATGAATTTGTGGCCCTGATAGGTGCCCTCCTTGC  
CATCTGCTGCATGATCTTCCTGGGCTTTGCGGATGATGTACTGAATCTGCGCTGGCGCCATAAGCTGCTGCTACC  
TACAGCTGCCTCACTACCTCTCCTCATGGTCTATTTACCAACTTTGGCAACACGACCATTGTGGTGCCCAAGCC  
CTTCGCCCCGATACTTGGCCTGCATCTGGACTTGGGAATCCTGTACTATGTCTACATGGGGCTGCTGGCAGTGT  
CTGTACCAATGCCATCAATATCCTAGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCATTTCTGCTTC  
CATCATTGTCTTCAACCTGGTAGAGTTGGAAGGTGATTGTGGGATGATCATGTCTTTTCCCTCTACTTCATGAT  
ACCCTTTTTTTTTACCACCTTTGGGATTGCTCTACCACAACTGGTACCCATCACGGGTGTTTGTGGGAGATACCTT  
CTGTTACTTTTGCTGGCATGACCTTTGCCGTGGTGGGCATCTTGGGACACTTCAGCAAGACCATGCTACTATTCTT  
CATGCCCCAGGTGTTCAACTTCCTCTACTCACTGCCTCAGCTCCTGCATATCATCCCTGCCCTCGCCACCGCAT  
ACCCAGACTCAATATCAAGACAGGCAAACCTGGAGATGAGCTATTCCAAGTTCAAGACCAAGAGCCTCTCTTTCTT  
GGGCACCTTTATTTTAAAGGTGGCAGAGAGCCTCCAGCTGGTGACAGTACACCAGAGTGAGACTGAAGATGGTGA  
ATTCAGTGAATGTAACAACATGACCCTCATCAACTTGCTACTTAAAGTCCTTGGGCCCATAATGAGAGAAACCT  
CACATTGCTCCTGCTGCTGCTGCAGATCCTGGGCAGTGGCCATCACCTTCTCCATTGATATCAGCTCGTTTCGACT  
CTTCTATGATGTCTGAGTCCCTTGATCATTGTCTTTACCTCACAGTCTCTAGGATTCTGACTCAGGCTGACCT  
CTCTCTCTGGTCCCAGACTGCCTCCTTGCCCAGGCCTCTCTCACTCTTCATACTCCTCCAGATTTGTTCTCAGC  
ATTTTCCTTTCTCTGTGATCATTGGCATCCTGGGCGTTTCTTGCCCTCTGCTGACTACTGATTGGATTTTACCTA  
TGGCTTTCTGCAACTTGCTACTCTCTCCCTCTCCATCCCATCTTGAGCCTCATAGGGTGGGATACAGCAGCTTT  
TTTGAGTTATCCACACTCACATTTAGAGTCCTGACTCTCAAGGAACCACTGGTTTTTGGGATAGAAGTTGGGC  
CAGGGCTAGGAACACAGGCTCCACGGTGACATGTCAATTTGATTGTAAATTAAGTGTCTGATTAGTAAGAATAA  
GCAGGGGGCCACATGCTCTCAATGGAGACAATAAAGTGTGTCTTTTCTT

3654/6881  
**FIGURE 3367A**

GCATGATTCCAGCAGGGGGCCGAGCCCCCTGGGCCCCCTACAGCCCTGTTCTGCAGAATCAGAAAGTCTGGTAA  
ATGGGAACCACACCCCCACAGACTGCAACACGGGGACCCTCTGCCTGTGCCAGCCACAGTTCCTTGGTGAGCTCTA  
TTGAGAAGGACCTGCAAGAGATCATGGACTCACTGGTGCTAGAGGAGCCTGGAGCTGCTGGCAAGAAGCCTGCCG  
CAACCTCTCCACTGTCAACGATGGCTAATGGTGGGCGCTACCTGCTGTCTCCCCAACAGCCCCGGCGCCATGT  
CTGTGGGCTCCAGCTATGAGAACACCTCTCCAGCCTTCTCTCCACTTCCTGCGGTTTGGGTTTCATGGCCAACTG  
TAAGTGATGAGAGACACTTGAGGAGGTCTAGGGACCCTAGAGAGCCATGGAAGCCTCACAAACCAGGCTTCAGGC  
CTATAGGTAGGCCTGCGGGAAAAGGCAACAAAGACCAGGAATGTGATTGTGTCATCCCTCCTTTACCTCCTAGGC  
CCCTGAGAGGTGACTGTATCTGGGTGGGTGTGTATGTGGAGAGGGGTGGATGAAGTGGTAGGGCCATGGGAGTAC  
TCACTCATGGGCCTGGGCATTCAAGGACTGGCAGCAGCCCATCCTGCTGATAAACAGCCAAGGGCTGCCTGAGGG  
TAACCTGGAGCTGAGGTGGGGACAAAGAGGGCCGTGTCTTGGTCTACCTCTTCTCCATGTATGCTGTGGTTGG  
GTGCTGGTCCCTGTGGGCTCATGGGTCTGTTTTCCAGCACTGTCTGTCTGCATACATGCCACCTGTCTGTATG  
CTAGACTGTGTTTATCTGTGAGTGTGCATCAGTGTGCATTTGTGCATGTCAGGGCTGGTGTCTCTGTACTTGCCT  
ATTAATGCAGGGCCAGGGCACATGTTGTATCCTTGTGTGCCGTGTGCATCAGTGTGGTGTGTCTGTATGTCTCT  
TGTGTCTGTAGATCTGTGTGTACCTGCGTCAGGACGAGCACTGAGTTTATCTGTGTCTCATTGTGGTCTGTAGT  
CTGCTTAACAGTGTGTTTCTGTATGTGTTTAGTGTGTTACTGTGGGTCCATTGGTGTGTTTCTGTGTCTCTGG  
GGTAGACTGAAAAAAGAAAGGAACAGGAAGATGGAAGGGGTGTCCCAGAAGTGGGCAGGAAGAACCAGGCTGTT  
ATGCCATGTGGGCATGTGGCACAACAGCCTCGTTCCTTCCGCCACTTCTGGGGCACCTTGTTTCCCTCTGCCTC  
CCCTAGGTCTTGGGGTCAGGCCTCTCCTGACTTGACACTGATGTCTAGCCCCCTGTAACCTGTCTCTCCCTCCT  
GACAGGATACTGAACCTGGCTCTATCCCCACCAGGGCTCAGCTTCCTCCCCTTCATGTCTGTCTGTCCATCCT  
CCCCAGGAACGCCAGCGCCTGGAGACCATCCTGAACCTGTGTGCCGAATACAGCCGGGCTGATGGGGGACCTGAG  
GCTGGGGAGCTTCCAGCATTGGGGAGGCCACCGCAGCATTGGCACTGGCAGGCCGGAGGCCCTCACGAGGCCTT  
GCAGGGGCTCTGGGCGGAGCAGCGAGGAGCTGGCGTTGCCACCCAACGCCTATGGGAGAGTATGGAGCGCTCA  
GATGAGGAAAATCTCAAGGAGGAGTGCAGCAGCACTGAGAGCACCAGCAGGAGCACGAAGATGCACCTAGCACC  
AAGCTCCAGGGAGAGGTGCTAGCCCTGGAAGAAGAGCGGGCTCAGGTGCTGGGGCACGTGGAGCAGCTCAAGGTC  
CGTGTGAAGGAGCTAGAGCAGCAGCTGCAGGAGTCAGCCCCAGAGGCCGAAATGGAGCGGGCACTGTCTGCAGGGA  
GAGAGGGAGGCAGAGCGGGCACTGCTGCAGAAGGAGCAGAAGGCAGTGGATCAGCTGCAGGAGAAGCTGGTGGCC  
TTGGAGACAGGCATCCAGAAGGAGAGGGACAAGGAGGCAGAGGCCCTGGAGACTGAGACAAAGCTCTTTGAGGAC  
TTGGAGTTCCAGCAGTTGGAGCGGGAGAGCCGCTGGAGGAGGAGCGGAGCTGGCCGGCCAGGGGCTGCTCCGG  
AGCAAGGCTGAGCTGTCTCCGAGCATCGCCAAGAGGAAGGAGCGCCTGGCCATCCTGGACAGTCAGGCTGGGCAG  
ATCCGGGCTCAGGCCGTGCAGGAATCAGAACGCCCTGGCCCGGGACAAGAATGCCTCCTTACAGCTGTGCAAAAG  
GAGAAGGAGAAGCTGACTGTGCTGGAAAGGAGATACCACTCACTCACAGGGGGCAGGCCTTTCCCGAAGACCACA  
TCGACCTCAAAGAGATGGAGAAGCTGCTGCTCCCTGCTGTAGACTTAGAGCAGTGGTACCAGGAGCTGATGGCC  
GGGCTGGGGACTGGCCCCGCTGCAGCCTCCCCTCACTCTTCTCCCCCGCCTCTGCCCCGCAAAGCTTCCCGTCAG  
CTGCAGGTTTACCGCTCCAAGATGGATGGCGAGGCCACCAGCCCCCTTCCCCGGACCCGCAGCGGCCCTCCCC  
TCCTCCTCTGGCTCTTCTCTCTCCTCCTCCCAGCTCAGCGTGGCTACCCTGGGGCGTAGCCCCCTCCCCAAAGAGC  
GCTCTACTCACCCAGAATGGCACGGGCAGCCTTCTCGCAACCTGGCAGCCACACTGCAGGACATCGAGACCAAG  
CGCCAAGTAGCTCTGCAGCAGAAGGGACAACAAGTGATTGAAGAGCAGCGGCGGCGACTGGCTGAGCTGAAGCAG  
AAAGCGGCAGCTGAGGCACAGTGCCAGTGGGATGCCCTTACGGGGCAGCACCTTCCAGCGGGGCCCTCGGGC  
TTCCCCCTCTCATGCACCACTCTATCCTACCCACCTGCCTGCGGGGCGGGAGCGTGGGGAGGAGGGTGAGCAC  
GCCTATGATACGCTGAGTCTGGAGAGCTCTGACAGCATGGAGACCAGCATCTCCACCGGGGGCAACTCGGCCTGC  
TCCCTGACAACATGTCCAGCGGAGTGGTCTGGACATGGGGAAGATCGAGGAGATGGAGAAGATGCTGAAAGAG  
GCTCATGCAGAGAAGAACCGGCTCATGGAGTCGAGGGAGCGGGAGATGGAGCTGCGGCGGCAGGCCCTGGAGGAG  
GAGCGGCGGAGGCGTGAGCAGGTAGAACGGAGGCTGCAGAGTGAGAGTGCCCGGAGGCAGCAGCTGGTCGAGAAG  
GAGGTCAAGATGCGGGAGAAACAATTTTCCAGGCACGACCCCTGACCCGCTACCTGCCAATCCGGAAGGAGGAC  
TTTGACCTGAAGACACATATTGAGTCATCGGGCCATGGTGTGATACCTGCCTGCAGTGGTGTCTCAGCAGCAAG  
GTCTGCCGTGGCTACTTGGTCAAGATGGGCGGCAAGATTAAATCATGGAAGAAGCGCTGGTGTCTTCGACCGG  
CTCAAGCGCACCCCTTTCCTATTATGTGGACAAGCATGAGACGAAGCTGAAGGGAGTCATCTATTTCCAGGCCATT  
GAGGAAGTGTAACGACCACCTGCGCAGTGCAGCCAAGAAGAGGTTTTTCCGCTTCACTATGGTGAAGTGAAGC

3655/6881  
**FIGURE 3367B**

CCGAACCCAGCCCTCACCTTCTGCGTAAAGACCCATGACCGGCTGTA CTACATGGTGGCCCCATCTGCAGAGGCC  
ATGCGTATCTGGATGGATGTCATTGTCACAGGGGCTGAGGGCTACACTCAGTTCATGA ACTAACTGCCGTGGGCC  
TCCTGGCAGAGCACAACTGGGGCTTTTGTATAAGAAGACTTTAATATTCTGTAAGGAGCTTGGTCCTGTGAGTTT  
CTGGGCTCTGGCCTCCTGAAGAACCAGCCAGAAGAAGAAAAGTAGAGGTGGCTTTGCTGCCTCCTGGGAGCCAG  
AACTTGCACTAACCCCTTAGGGTCCTGCCCCAGGCCCAGCCAGGGCTGAGGAGCTGTCACAGAGAGGGCCTCAGC  
TCTGACCTGACACCTGCTCTCCCCAGCCTGTTTTCTCTTTTCTAAAAGACAAATTATGGTACCATAAGCTGCCAA  
AGATCCCCCTCCTGCCCTCAGACCCCTTTGCCAGGGGCTTTGGGGGCTGAGCAGAGCCACATCCAGAGTGGGGTAAT  
AGCTCAGGCGGCCCGCTTCCCATTCTCAAACCCCGCTCTGCCCCATTGTTCTCCTTTCCCTTATACTTTTTATT  
ACCTTGCTCAAGGGCCAGAGATCTCAAGTGTCAACCTTGAGGTCCCAGCTCCATCCCCTAGTTGCAGACTCATCA  
CCATGGTTACCATAGTGACTGCTTCATTGCCATGGTTACATACTAATTGCTGCAGCTCTGTGGCCAGCCCACTG  
CTTCAGCTGTGGGCCATCTGAGGGTACGTGCCATCATCTCTCCAGCCAGGCCCCCTGGGCATCTCATGCTGGGGG  
GAAGGGACTGAATACCTTTTTCTTCCCCCTGCCTGTGTCTTCAGCCCTGATGCACAGGCTGCCAGCCCCCAGT  
CCAGCCCTCTCCCTTCCACTGGTGCCTTGCTTAGAGCCAGAAGGGATGAAGCCGGGGGATCTATGGAACAGAGGA  
GGAGCGATGCAGTTGGGAGAGGAAGCTAGAAGGGTTATGGTTGGAGTTCTGTACAGTGTGAGTTTCCGACAGGG  
AAAGAGGATTCTCCAATGCTCCTAGAGAGAAAGCCTGAGCAGGAGATGATGCAGCAGAGGGGAAGGGCCCTGTG  
GTGCCGCCGCCCTTCCCTCAGCCTCCGAAGGGTGATGGAATGGAGAGTGGAGGACCAGGCCTCCAGCTGTCTGG  
CCTCGCCCTTCACGCCTTAACACTAAGCCCACCTC CCGCTGCTCTCCTTCCCAGCATTGAGCCCTTGGTTGCCCTGG  
GCCCAGGCTGGGGGTTTTTCAGTATTTGTAAGCATTTTCAGCAGAACAATAAAGCCTTTGGACTACGGAA

3656/6881  
**FIGURE 3368**

MDALNRNQIGPGCQTQTMVQKGPLDLIETGKGLKVQTDKPHLVSLGSGRLSTAITLLPLEEGRTVIGSAARDISL  
QGPGLAPEHCYIENLRGTLTLYPCGNACTIDGLPVRQPTRLTQGCMLCLGQSTFLRFNHPAEAKWMKSMIPAGGR  
APGPPYSPVPAESES LVNGNHTPQTATRGPSACASHSSLVSSIEKDLQEIMDSLVLEEPGAAGKKPAATSPLSPM  
ANGGRYLLSPPTSPGAMSVGSSYENTSPAFSPLSSPASSGSCASHSPSGQEPGPSVPPLVPARSSSYHLALQPPQ  
SRPSGARSESPRLSRKGGHERPPSPGLRGLLTDSPAATVLAERARRATESPRLGGQLPVVAISLSEYPASGALSQP  
TSIPGSPKFQPPVPAPRNKIGTLQDRPPSPFREPPGSEVLTTSPSRQLVGRTFSDGLATRTLQPPESPRLGRRG  
LDSMRELPLSPSLRRALSPLPTRTTPDPKLNREVAESPRPRRWAHGA SPEDFSLTLGARGRRTRSPSPTLGE  
SLAPHKGSFSGRLSPAYSLGSLTGASPCQSPCVQRKLSSGDLRVPVTRERKNSITEISDNEDDLLEYHRRQRQER  
LREQEMERLERQRL ETIILNLCAEYSRADGGPEAGELPSIGEATAALALAGRRPSRGLAGASGRSSEEPGVATQRL  
WESMERSDEENLKEECSSTESTQQEHEDAPSTKLQGEVLAL EEERAQVLGHVEQLKVRVKELEQQQLQESAREAM  
ERALLQGEREAERALLQKEQKAVDQLQEKLVLETGIQKERDKEAELETETKLFEDLEFQQLERESRVEEEREL  
AGQGLLRSKAELLRSIAKRKERLAILDSQAGQIRAAVQESERLARDKNASLQLLQKEKEKLTVLERRYHSLTGG  
RPFPKTTSTLKEMEKLLLPAVDLEQWYQELMAGLGTGPAAASPHSSPPPLPAKASRQLQVYRSKMDGEATSPLPR  
TRSGPLPSSSGSSSSSSSSQLSVATLGRSPSPKSALLTQNGTGS LPRNLAATLQDIETKRQLALQKQGVIEEQR  
RLAELKQKAAAEACQWDALHGAAPFPAGPSGFPLMHHSILHHLPAGRERGEEGEHAYDTLSLESSDSMETSIS  
TGGNSACSPDNMSSASGLDMGKIEEMKMLKEAHA EKNRLMESREREMELRRQALEEERRRREQVERRLQSESAR  
RQQLVEKEVKMREKQFSQARPLTRYLP IRKEDFDLKTHIESSGHGVDTC LHVVLSKVCRGYLVKMGGKIKSWKK  
RWFVFDRLKRTL SYYVDKHETKLKGVIFYQAI EEVYYDHLRSAAKKRFFRFTMVTESPNALTFCVKTHDRLYYM  
VAPSAEAMRIWMDVIVTGAEGYTQFMN

3657/6881  
**FIGURE 3369**

CCCAGGCTCCTCGGGACTCGGCGGGTCCCTCCTGGGAGTCTCGGAGGGGACCGGCTGTGCAGACGCCATGGAGTTG  
GTGCTGGTCTTCCTCTGCAGCCTGCTGGCCCCCATGGTCTGGCCAGTGCAGCTGAAAAGGAGAAGGAAATGGAC  
CCTTTTCATTATGATTACCAGACCCTGAGGATTGGGGGACTGGTGTTCGCTGTGGTCTCTCTCGGTTGGGATC  
CTCCTTATCCTAAGTCGCAGGTGCAAGTGCAGTTTCAATCAGAAGCCCCGGGCCCCAGGAGATGAGGAAGCCCAG  
GTGGAGAACCTCATCACCGCCAATGCAACAGAGCCCCAGAAAGCAGAGAACTGAAGTGCAGCCATCAGGTGGAAG  
CCTCTGGAACCTGAGGCGGCTGCTTGAACCTTTGGATGCAAATGTCGATGCTTAAGAAAACCGGCCACTTCAGCA  
ACAGCCCTTTCCCCAGGAGAAGCCAAGAACTTGTGTGTCCCCACCCTATCCCCTCTAACACCATTCTCCACCT  
GATGATGCAACTAACACTTGCTTCCCCACTGCAGCCTGCGGTCTGCCCACCTCCCGTGATGTGTGTGTGTGTGT  
GTGTGTGTGTGACTGTGTGTGTTTGCTAACTGTGGTCTTTGTGGCTACTTGTGTGTGGATGGTATTGTGTTTGT  
AGTGAAGTGTGGACTCGCTTTCCAGGCAGGGGCTGAGCCACATGGCCATCTGCTCCTCCCTGCCCCCGTGGCCC  
TCCATCACCTTCTGCTCCTAGGAGGCTGCTTGTGTGCCCAGACCAGCCCCCTCCCCTGATTTAGGGATGCGTAGG  
GTAAGAGCACGGGCAGTGGTCTTCAGTCGCTTGGGACCTGGGAAGGTTTGCAGCACTTTGTCATCATTCTTCAT  
GGACTCCTTTCACTCCTTTAACAAAAACCTTGCTTCCCTATCCCACCTGATCCCAGTCTGAAGGTCTCTTAGCAA  
CTGGAGATACAAAGCAAGGAGCTGGTGAGCCCAGCGTTTGACGTCAGGCAGGCTATGCCCTTCCGTGGTTAATTT  
CTTCCCAGGGGCTTCCACGAGGAGTCCCCATCTGCCCCGCCCTTCACAGAGCGCCCGGGGATTCCAGGCCCAGG  
GCTTCTACTCTGCCCCTGGGGAATGTGTCCCCTGCATATCTTCTCAGCAATAACTCCATGGGCTCTGGGACCCTA  
CCCCTTCCAACCTTCCCTGCTTCTGAGACTTCAATCTACAGCCCAGCTCATCCAGATGCAGACTACAGTCCCTGC  
AATTGGGTCTCTGGCAGGCAATAGTTGAAGGACTCCTGTTCCGTTGGGGCCAGCACACCGGGATGGATGGAGGGA  
GAGCAGAGGCCTTTGCTTCTCTGCCTACGTCCCCTTAGATGGGCAGCAGAGGCAACTCCCGCATCCTTTGCTCTG  
CCTGTCTGGTGGTCAGAGCGGTGAGCGAGGTGGGTTGGAGACTCAGCAGGCTCCGTGCAGCCCTTGGGAACAGTGA  
GAGGTTGAAGGTCATAACGAGAGTGGGAACCAACCCAGATCCCGCCCCTCCTGTCTCTGTGTTCGCGGAAAA  
CCAACCAAACCGTGCCTGTGACCCATTGCTGTCTCTGTATCGTGATCTATCCTCAACAACAACAGAAAAAAGG  
AATAAAATATCCTTTGTTTCCTAGTGA



3658/6881  
**FIGURE 3370**

MELVLVFLCSLLAPMVLASAAEKEKEMDPFHYDYQTLRIGGLVFAVVLFSVGILLILSRRCKCSFNQKPAPGDE  
EAQVENLITANATEPQKAEN

3659/6881  
**FIGURE 3371**

ATCCTGTCGTCCGAACCCAGACACAAGTCTTCACTCCTTCCTGCGAGCCCTGAGGAAGCCTTCTTTCCCCAGAC  
ATGGCCAAACAAGGGTCCTTCCTATGGCATGAGCCGCGAAGTGCAGTCCAAAATCGAGAAGAAGTATGACGAGGAG  
CTGGAGGAGCGGCTGGTGGAGTGGATCATAGTGCAGTGTGGCCCTGATGTGGGCCGCCAGACCGTGGGCGCTTG  
GGCTTCCAGGTCTGGCTGAAGAATGGCGTGATTCTGAGCAAGCTGGTGAACAGCCTGTACCTGATGGCTCCAAG  
CCGGTGAAGGTGCCCCGAGAACCCACCCTCCATGGTCTTCAAGCAGATGGAGCAGGTGGCTCAGTTCCTGAAGGCG  
GCTGAGGACTATGGGGTCATCAAGACTGACATGTTCCAGACTGTTGACCTCTTTGAAGGCAAAGACATGGCAGCA  
GTGCAGAGGACCCTGATGGCTTTGGGCAGCTTGGCAGTGACCAAGAATGATGGGCACTACCGTGGAGATCCCAAC  
TGGTTTATGAAGAAAGCGCAGGAGCATAAGAGGGAATTCACAGAGAGCCAGCTGCAGGAGGGAAGCATGTCATT  
GGCCTTCAGATGGGCAGCAACAGAGGGGCCTCCAGGCCGGCATGACAGGCTACGGACGACCTCGGCAGATCATC  
AGTTAGAGCGGAGAGGGCTAGCCCTGAGCCCGGCCCTCCCCAGCTCCTTGGCTGCAGCCATCCCGCTTAGCCTG  
CCTCACCCACACCCGTGTGGTACCTTCAGCCCTGGCCAAGCTTTGAGGCTCTGTCACTGAGCAATGGTAACTGCA  
CCTGGGCAGCTCCTCCCTGTGCCCCAGCCTCAGCCCAACTTCTTACCCGAAAGCATCACTGCCTTGGCCCCCTCC  
CTCCCGGCTGCCCCCATCACCTCTACTGTCTCCTCCCTGGGCTAAGCAGGGGAGAAGCGGGCTGGGGGTAGCCTG  
GATGTGGGCCAAGTCCACTGTCTCCTTGGCGGCAAAAGCCCATTGAAGAAGAACCAGCCAGCCTGCCCCCTAT  
CTTGTCCTGGAATATTTTTGGGGTTGGAATC

3660/6881  
**FIGURE 3372**

MANKGPSYGMsREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDGRGLGFQVWLKNGVILSKLVNSLYPDGSK  
PVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTFQTVDLFEGKDMAAVQRTLMALGSLAVTKNDGHYRGDPN  
WFMKKAQEHKREFTESQLQEGKHVIGLQMGsNRGASQAGMTGYGRPRQIIS

3661/6881  
**FIGURE 3373**

CCTTTCCGGCGGTGATGACCTACCCACACGAGAACATGCCTCTTGCAAAGGGTCTCCTTCATCCCTCTCCAGAAA  
AGGAGAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCAATTCCTGCTTCATGGATGTGAAATGCCCAG  
GATGCTATAAAATCATCACGGTCTTTAGCCATGCACAAACGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCCTCT  
GCCAGCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTCTTCAGGAGGAAGCAGCACTAAAAGCACTCTG  
AATCAAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAATT

3662/6881  
**FIGURE 3374**

GACATGCTCAGCAACATGCCAGGCACAGCTGCAGGCTCCAGTGGGCGCGGCATCTCCATCAGCCCCAGTGCTGGT  
CAGATGCAGATGCAGCACCCTACCAACCTGATGGCCACCCTCAGCTATGGGCACCGTCCCTTGTTCAAGCAGCTG  
AGTGCTGACAGTGCAGAGGCTCACAGCTTGAACGTGAATCGGTTCTCCCCTGCTAACTACGACCAGGCGCATTTA  
CACCCCCATCTGTTTTTCGGACCAGTCCCGGGGTTCCCCCAGCAGCTACAGCCCTTCAACAGGAGTGGGGTTCTCT  
CCAACCCAAGCCCTGAAAGTCCCTCCACTTGACCAATTCCCCACCTTCCCTCCCAGTGCACATCAGCAGCCGCCA  
CACTATACCAGTGGGCACTACAGCAGGCCCTGCTGTCTCCACGCGGCCAGACTATAAAGACACCAGCAGGTA  
CCCCACATCCTTCAAGGACTGCTTTCTCCCGGCATTGCTCACCGGCCACTCGGACATCCGGCTGCCCCCAACA  
GAGTTTGACAGCTCATTAAAGGCAGCAGCAACAACGGCAGCAGCAGCAGCAACAGCAGCAACAGCAAGAATAC  
CAGGAACGTTCAGGCACATGAACCAAGGGGATGCGGGGAGTCTGGCTCCCAGCCTTGGGGGACAGAGCATGACA  
GAGCGCCAGGCTTTATCTTATCAAAATGCTGACTCTTATCACCATCACACCAGCCCCCAGCATCTGCTACAAATC  
AGGGCACAAGAATGTGTCTCACAGGCTTCCTCACCCACCCCGCCCCACGGGTATGCTCACCAGCCGGCACTGATG  
CATTGAGAGCATGGAGGAGGACTGCTCGTGTGAGGGGGCCAAGGATGGCTTCCAAGACAGTAAGAGTTCAAGT  
ACATTGACCAAAGGTTGCCATGACAGCCCTCTGCTCTTGAGTACCGGTGGACCTGGGGACCCTGAATCTTTGCTA  
GGAAGTGTGAGTCATGCCCAAGAATTGGGGATACATCCCTATGGTCATCAGCCAACTGCTGCATTGAGTAAAAAT  
AAGGTGCCCAGCAGAGAGCCTGTCATAGGGAAGTGCATGGATAGAAGTTCTCCAGGACAAGCAGTGGAGCTGCCG  
GATCACAATGGGCTCGGGTACCCAGCACGCCCCCTCCGTCCATGAGCACCACAGGCCCCGGGCCCTCCAGAGACAC  
CACACGATCCAGAACAGCGACGATGCTTATGTACAGCTGGATAACTTGCCAGGAATGAGTCTCGTGGCTGGGAAA  
GCACCTAGCTCTGCCCCGATGTCGGATGCAGTTCTCAGTCAGTCTTCGCTCATGGGCAGCCAGCAGTTTCAGGAT  
GGGGAAAATGAGGAATGTGGGGCAAGCCTGGGAGGTCATGAGCACCAGACCTGAGTGATGGCAGCCAGCATTTA  
AACTCCTCTTGCTATCCATCTACGTGTATTACAGACATTCTGCTCAGCTACAAGCACCCTGAAGTCTCCTTCAGC  
ATGGAGCAGGCAGGCGTGTAAACAAGAAACAGAGATTTTGTGTACAGCTTGGGAATGAAAAGGTTGATTGTAAAC  
CCACAGTATCTAGCAGCGTTGTGCCAAATTGCCCTTGTGTTTTCTCTCCACCCAAAATATCACAGCTGCTTTCCTC  
ACATTTGGTTTATCCGTGTGCTGTCTTTTGGGTTCTGAGAGGGTTTGGCCATGTTTGCTTGTATGACCAAGTCA  
CCAAGGAAATAAACAGGAAGGAAATCC

3663/6881

**FIGURE 3375**

MLSNMPGTAAGSSGRGISISPSAGQMOMQHRTNLMATLSYGHRPLSKQLSADSAEAHSLNVNRFSPANYPDQAH  
PHLFSDQSRGSPSSYSPSTGVGFSPQTQALKVPPLDQFFTFPPSAHQPPHYTTTALQQALLSPTPPDYTRHQQVP  
HILQGLLSPRHSLTGHSDIRLPPTTEFAQLIKRQQQQRQQQQQQQQQEQEYQELFRHMNQGDAGSLAPSLGGQSMTE  
RQALSYQNADSYHHHTSPQHLLQIRAEQCVSQASSPTPPHGYAHQPALMHSESMEEDCSCEGAKDGFQDSKSSST  
LTKGCHDSPLLLSTGGPGDPESLLGTVSHAQELGIHPYGHQPTAAFSKNKVPSPREPVI GNCMDRSSPGQAVELPD  
HNGLGYPARPSVHEHHRPRALQRHHTIQNSDDAYVQLDNLPGMSLVAGKALSSARMSDAVLSSQLMGSQQFQDG  
ENEECGASLGGHEHPDLSDGSQHLNSSCYPSTCITDILLSYKHPEVSFSMEQAGV

3664/6881  
**FIGURE 3376**

AGAGACTGCGAGAAGGAGGTCCCCACGGCCCTTCAGGATGAAGCTGCGGTGCTGACCTTGGCCGTGCTCTTCC  
TGACGGGGAGCCAGGCTCGGCATTTCTGGCAGCAAGATGAACCCCCCAGAGCCCTGGGATCGAGTGAAGGACC  
TGGCCACTGTGTACGTGGATGTGCTCAAAGACAGCGGCAGAGACTATGTGTCCCAGTTTGAAGGCTCCGCCTTGG  
GAAAACAGCTAAACCTAAAGCTCCTTGACAACTGGGACAGCGTGACCTCCACCTTCAGCAAGCTGCGCGAACAGC  
TCGGCCCTGTGACCCAGGAGTTCTGGGATAACCTGGAAAAGGAGACAGAGGGCCTGAGGCAGGAGATGAGCAAGG  
ATCTGGAGGAGGTGAAGGCCAAGGTGCAGCCCTACCTGGACGACTTCCAGAAGAAGTGGCAGGAGGAGATGGAGC  
TCTACCGCCAGAAGGTGGAGCCGCTGCGCGCAGAGCTCCAAGAGGGCGCGCGCCAGAAGCTGCACGAGCTGCAAG  
AGAAGCTGAGCCCACTGGGCGAGGAGATGCGCGACCGCGCGCGCGCCCATGTGGACGCGCTGCGCACGCATCTGG  
CCCCCTACAGCGACGAGCTGCGCCAGCGCTTGGCCGCGCGCCTTGAGGCTCTCAAGGAGAACGGCGCGCCAGAC  
TGGCCGAGTACCACGCCAAGGCCACCGAGCATCTGAGCACGCTCAGCGAGAAGGCCAAGCCCAGCTCGAGGACC  
TCGCGCAAGGCCTGCTGCCCCTGCTGGAGAGCTTCAAGGTCAGCTTCTGAGCGCTCTCGAGGAGTACACTAAGA  
AGCTCAACACCCAGTGAAGGCGCCCGCGCGCCCCCTTCCCGGTGCTCAGAATAAACGTTTCCAAAGTGGG

3665/6881  
**FIGURE 3377**

MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKLLDNWD  
SVTSTFSKLREQLG PVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDEFQKKWQEEMELYRQKVEPLRAEL  
QEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELQRQLAARLEALKENG GARLA EYHAKATEHLS  
TLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQ



3666/6881  
**FIGURE 3378**

CTGAATTGCGCGTGGTGGCCATGGCGGCCAGCGGGGCTGTGGAACCAGGGCCCCCGGGGGCTGCCGTGCCCCCGT  
CGCCCCCGCCGGCCCCCGCCGCTGCCCCTGATCACCTGTTCCGGCCCATCAGCGCCGAGGACGAGGAGCAGCAGC  
CCACCGAGATCGAGTCGCTATGCATGAACTGTTACTGCAATGGCATGACGCGCCTCCTGCTCACCAAGATTCCCT  
TCTTCAGAGAAATAATAGTGAGCTCCTTTTCTGCGAGCACTGTGGCTGGAACAACACGGAGATCCAGTCGGCAG  
GCAGGATCCAGGACCAGGGAGTGCCTACACTTTGTCTGTTCAGGGCTCTGGAGGACATGAACAGAGAAGTGGTGA  
AGACTGACTCTGCTGCCACAAGGATTCTGAGCTAGATTTTGAAATTCCTGCCTTTAGCCAGAAAGGAGCTCTGA  
CCACTGTTGAAGGATTGATCACCCGTGCTATCTCTGGCCTGGAGCAGGACCAGCCTGCACGAAGGGCAAACAAAG  
ATGCTACAGCTGAAAGAATTGATGAGTTCATTGTCAAACCTGAAGGAGCTAAAGCAAGTAGCCTCCCTTTTCACTC  
TGATCATTGATGATCCCTCAGGGAACAGTTTGTGGAAAACCCACATGCTCCTCAGAAAGATGATGCCCTGGTGA  
TCACACACTACAACCGGACCCGACAGCAGGAAGAGATGCTGGGGCTTCAAGAAGAAGCACCAGCAGAGAAGCCAG  
AAGAGGAAGATCTCAGAAATGAAGTGCTCCAGTTCAGCACAACTGCCCAGAATGCAATGCCCCGCTCAGACCA  
ACATGAAGCTAGTACAAATCCCTCACTTTAAGGAGGTTATCATCATGGCTACCAACTGCGAGAACTGTGGGCATC  
GGACCAATGAGGTGAAATCTGGAGGAGCAGTAGAACCTTGGGCACCAGGATCACCTCCACATCACAGATGCCT  
CAGATATGACCAGAGACCTCCTCAAGTCTGAGACTTGCACTGTGGAAATCCCAGAGCTAGAATTTGAACTGGGAA  
TGGCAGTCCTCGGGGGCAAGTTCACCACACTGGAAGGGCTGCTGAAAGACATCCGGGAAGTGGTGACCAAAAATC  
CTTTCACACTGGGCGACAGTTCCAATCCTGGACAGACGGAGAGACTACAGGAGTTTAGCCAGAAGATGGACCAGA  
TCATCGAAGGTAACATGAAGGCCCACTTTATTATGGATGATCCAGCAGGAACAGTTACTTGAGAAATGTGTATG  
CGCCTGAAGATGATCCTGAGATGAAGGTGGAGCGTTACAAGCGCACCTTTGACCAAAATGAGGAGCTAGGGCTCA  
ATGACATGAAGACAGAGGGCTATGAGGCAGGCCTGGCTCCGCAACGGTTAGCAGTGGGTGGCTCAAGGCCAGCCT  
CCAGCGCTGCTCTTTCTGTAGGTTATTTATTAGTATTGGATGAAGCGAAGGCTGGGAGTGTCTTTCCACCAGC  
CCTTGCCCATGGTGGGGAGGACATCTGGTCTGAGTCAGAGATCTGTGCACACTTCTAAACAGCTTGATGCAA  
GTGTGAGCCTATTGTGTTACTTGACCTTATTTTGAAGTTTTGAATTGGCCTAGGAGGAAACCCAGAAATGAACC  
AGGGGTATGTCATCACTTTTTTCATATCAAGTCCTCACCTCCTCCACATAATGCTCTATCCTCTAAGGTTGGA  
ACTCTGAAGTTGGAGAAGGTGGAATAAAGTTACACCTGG

3667/6881  
**FIGURE 3379**

MAASGAVEPGPPGA AVAPSPAPAPPPAPDHLFRPISAEDEEQPTEIESLCMNCYCNGMTRLLLLTKIPFFREIIV  
SSFSCHEHCGWNNTEIQSAGRIQDQGVRYTLSVRALEDMNREVVKTD SAATRIPELDFEIPAFSQKGALTIVEGLI  
TRAISGLEQDQPARRANKDATAERIDEFIVKLKELKQVASPFTLIIDDP SGNSFVENPHAPQKDDALVITHYNRT  
RQQEEMLGLQEEAPA EKPEEEDLRNEVLQFSTNCPECNAPAQTNMKLVQIPHFKVII MATNCENC GHRTNEVKS  
GGAVEPLGTRITLHITDASDMTRDLLKSETCSVEIPELEFELGMAVLGGKFTTLEGLLKDI RELVTKNPFTLGDS  
SNPGQTERLQEF SQKMDQII EGNMKAHFIMDDPAGNSYLQNVYAPEDDP EMKVERYKRTFDQNEELGLNDMKTEG  
YEAGLAPQR

3668/6881  
**FIGURE 3380**

TGAACTCTGGATGCTGTTAGCCTGAGACTCAGGAAGACAACCTTCTGCAGGGTCACTCCCTGGCTTCTGGAGGAAA  
GAGAAGGAGGGCAGTGCTCCAGTGGTACAGAAGTGAGACATAATCGAATCAGGCTTCACCTCCAAGGACACCTAT  
CTAAGCCATTTTAAACCTCGGGATTACCTAGAAAAATATTACAAGTTTGGTTCTAGGCACTCTGCAGAAAGCCAG  
ATTCTTAAGCACCTTCTGAAAAATCTTTTCAAGATATTCTGCCTAGACGGTGTGAAGGGAGACCTGCTGATTGAC  
ATCGGCTCTGGCCCCACTATCTATCAGCTCCTCTCTGCTTGTGAATCCTTTAAGGAGATCGTCGTCAGTACTAC  
TCAGACCAGAACCTGCAGGAGCTGGAGAAGTGGCTGAAGAAAGAGCCAGAGGCCTTTGACTGGTCCCCAGTGGTG  
ACCTATGTGTGTGATCTTGAAGGGAACAGAGTCAAGGGTCCAGAGAAGGAGGAGAAGTTGAGACAGGCGGTCAAG  
CAGGTGCTGAAGTGTGATGTGACTCAGAGCCAGCCACTGGGGGCCGTCCCCTTACCCCGGCTGACTGCGTGCTC  
AGCACACTGTGTCTGGATGCCGCCTGCCAGACCTCCCCACCTACTGCAGGGCGCTCAGGAACCTCGGCAGCCTA  
CTGAAGCCAGGGGGCTTCCTGGTGATCATGGATGCGCTCAAGAGCAGCTACTACATGATTGGTGAGCAGAAGTTC  
TCCAGCCTCCCCCTGGGCCGGGAGGCAGTAGAGGCTGCTGTGAAAGAGGCTGGCTACACAATCGAATGGTTTGAG  
GTGATCTCGCAAAGTTATTCTTCCACCATGGCCAACAACGAAGGACTTTTCTCCCTGGTGGCGAGGAAGCTGAGC  
AGACCCCTGTCATGCTGTGACCTCAATTAAAGCAATTCCTTTGACCTGTCA

3669/6881  
**FIGURE 3381**

MESGFTSKDTYLSHFNPRDYLEKYYYKEGSRHSAESQILKHLKLNLFKIFCLDGVKGDLLIDIGSGPTIYQLLSAC  
ESFKEIVVTDYSDQNLQELEKWLKKEPEAFDWSPVVTYVCDLEGNRVKGPEKEEKLQAVKQVLKCDVTQSQPLG  
AVPLPPADCVLSTLCLDAACPDLPITYCRALRNLGSLKPGGFLVIMDALKSSYYMIGEQQFSSLPLGREAVEAAV  
KEAGYTIEWFEVISQSYSSTMANNEGLFSLVARKLSRPL

3670/6881  
**FIGURE 3382**

CAGATGCAGTTTTCTCCGCACGTGCGCGCCTTCTCTCCTTCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATC  
AGGGGCAGCAGTACCTGTGGCAGCATTGGCCTTTGCAGCGGCGGCAGCAGCACCAGGCTCTGCAGCGGCACCCCC  
CAGCGGCTTAAGCCATGGCGCTTCTCAGGGCATTAGCAGCAGCGTTGCTGTAACCGACAAAGACACCTTCGAAT  
TAAGCACATTCTCGATTCCAGCAAAGCACCGCAACATGACCGAAATGAGCTTCTGAGCAGCGAGGTATTGGTG  
GGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAAGAAAGCCTAGGTCTCTTAGATAACTACCTG  
GAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGGGACAAGGCTAAGGCGGGCTTCTCCGAATGGCTGGCT  
GTGGATGGGTTAGGCAGTCCCTCCAATAACAGCAAGGAGGATGCCTTCTCCGGGACAGATTGGATGTTGGAGAAA  
ATGGATTTGAAGGAGTTCGTCTTTGATGCCCTGTTGGGTATAGATAACCTGGAAACCATGCCAGATGAACTTTTG  
ACCACTTTGGATGACACTTGTGATCTCTTTGCCCCCTAGTCCAGGAGACTAATAAGGAGACCCCCAGACGGTGA

ACCCAATTGGCCATCTCCCAGGAAGTTTAACAAAACCCGACCAGGTTGCCCCCTTCACCTTCTTGCAACCTCTTC  
CCCTTTCCCCAGGGTCCCTGTCTCCACTCCAGGTCATTCTTTAGTTTAGAGCTGGGCAGTGAAGTGGATATCC  
TGAAGGAGATAGGAAGCCAGACTCCACTGCTTACGTTGCCATGATCCCTCAGTGCATAAAGGAGGAAGACACCCC  
TTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTATCTAGGGTCTCCTCAGCATAGCCCCCTCTACCAG  
GGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGTGGGTCTGCCCCCCCCAAACCTTACAATCCTCC  
TGGAGAGACGATGGTAGCAGCAAAAGTAAAGGGTGAGAACTGGATAAGAAGTTGAAAAAATGGAGTAAACAA  
GACAGCAGCCACTGGGTACCGCCAGAAGAAGAGGGTGGAGCAGGAGGCTCTCACTGGTGAGTGCAAAGAGCTGGA  
AAAGAAGAACGAGGCTCTAAAAGAGAGGGCGGATTCCCTGGCCAAGGAGATCCAGTACCTGAAAGATTTGATAGA  
AGAGGTCCGCAAGACAAGGGGAAGAAAAGGGTCCCCTAGTTGACGGTAGTCAGGAGCGTCAATGTGCTTGAC  
TGGAGCCTCTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG

3671/6881  
**FIGURE 3383**

MTEMSFLSSEVLVGDLMSPFQSGLGAEESIGLLDNYLEVAKHFKPHGFSRDKAKAGFSEWLAVDGLGSPSNNSK  
EDAFSGTDWMLEKMDLKEFVFDALLGIDNLETMPDELLTTLDDTCDLFAPLVQETNKETPRR

3672/6881  
**FIGURE 3384**

GGCAGCCGTCGCGGGCCGCCACTCTCCTCGGCCGGTCCCTGGCTCCCGGAGGCGGCCGCGGTGGATGCGGCGGG  
AGCTGGAAGCCTCAAGCAGCCGGCGCCGTCTCTGCCCCGGGGCGCCCTATGGCTTGAAGAGCCTGGCCACCCAGT  
GGCTCCACCGCCCTGATGGATCCACTGAATCTGTCTGGTATGATGATGATCTGGAGAGGCAGAACTGGAGCCGG  
CCCTTCAACGGGTGACAGCGGAAGGCGGACAGACCCCACTACAATACTATGCCACACTGCTCACCCCTGCTCATC  
GCTGTATCGTCTTCGGCAACGTGCTGGTGTGCATGGCTGTGTCCCGGAGAAGGCGCTGCAGACCACCAAC  
TACCTGATCGTCAGCCTCGCAGTGGCCGACCTCCTCGTCGCCCACTGGTCATGCCCTGGGTTGTCTACCTGGAG  
GTGGTAGGTGAGTGGAAATTCAGCAGGATTCACTGTGACATCTTCGTCACTCTGGACGTCATGATGTGCAGGCG  
AGCATCCTGAACTTGTGTGCCATCAGCATCGACAGGTACACAGCTGTGGCCATGCCCATGCTGTACAATAACGCGC  
TACAGCTCCAAGCGCCGGGTACCGTCATGATCTCCATCGTCTGGGTCTGTCTTACCATCTCCTGCCCACTC  
CTCTTCGGACTCAATAACGCAGACCAGAACGAGTGCATCATTGCCAACC CGCCTTCGTGGTCTACTCTCCATC  
GTCTCCTTCTACGTGCCCTTCATTGTCAACCCTGCTGGTCTACATCAAGATCTACATTGTCTCCGAGACGCGC  
AAGCGAGTCAACACCAAACGCAGCAGCCGAGCTTTCAGGGCCACCTGAGGGCTCCACTAAAGGGCAACTGTACT  
CACCCCGAGGACATGAACTCTGCACCGTTATCATGAAGTCTAATGGGAGTTTCCAGTGAACAGGCGGAGAGTG  
GAGGCTGCCCCGGGAGCCAGGAGCTGGAGATGGAGATGCTCTCCAGCACCAGCCACCCGAGAGGACCCGGTAC  
AGCCCCATCCACCCAGCCACCAGCTGACTCTCCCGACCCGTCACCATGGTCTCCACAGCACTCCCGAC  
AGCCCCGCCAAACCAGAGAAGAATGGGCATGCCAAAGACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACC  
ATGCCCAATGGCAAAACCCGACCTCCCTCAAGACCATGAGCCGTAGGAAGCTCTCCAGCAGAAGGAGAAGAAA  
GCCACTCAGATGCTCGCCATTGTTCTCGGCGTGTTCATCATCTGCTGGCTGCCCTTCTTCATCACACACATCCTG  
AACATACTGTGACTGCAACATCCCGCTGTCTGTACAGCGCCTTCAGTGGCTGGGCTATGTCAACAGCGCC  
GTGAACCCCATCATCTACACCACCTTCAACATTGAGTTCGGCAAGGCCTTCCTGAAGATCTCCACTGCTGACTC  
TGCTGCTGCCCGCACAGCAGCCTGCTTCCACCTCCCTGCCAGGCCGCCAGCCTCACCTTGCGAACCCTGA  
GCAGGAAGGCCTGGGTGGATCGGCCTCCTCTTACCCCGGCAGGCCCTGCAGTGTTTCGCTTGGCTCCATGCTCCT  
CACTGCCCCGACACCCCTCACTCTGCCAGGGCAGTGCTAGTGAGCTGGGCATGGTACCAGCCCTGGGGCTGGGCCC  
CCCAGCTCAGGGGCAGCTCATAGAGTCCCCCTCCACCTCCAGTCCCCCTATCCTTGGCACCAAGATGCAGCC  
GCCTTCTTGACCTTCTCTGCGGCTCTAGGGTTGCTGGAGCCTGAGTCAGGGCCAGAGGCTGAGTTTTCTCTT  
TGTGGGGCTTGGCGTGGAGCAGGCGGTGGGGAGAGATGGACAGTTTACACCCTGCAAGGCCACAGGAGGCAAGC  
AAGCTCTCTTGCCGAGGAGCCAGGCAACTTCAGTCCCTGGGAGACCCATGTAAATACCAGACTGCAGGTTGGACCC  
CAGAGATTCCCAAGCCAAAACCTTAGCTCCCTCCCGACCCCGATGTGGACCTCTACTTTCCAGGCTAGTCCGG  
ACCCACCTCACCCCGTTACAGCTCCCCAAGTGGTTTCCACATGCTCTGAGAAGAGGAGCCCTCATCTTGAAGGGC  
CCAGGAGGGTCTATGGGGAGAGGAACCTTGGCCTAGCCACCCCTGCTGCCTTCTGACGGCCCTGCAATGTATC  
CCTTCTACAGCACATGCTGGCCAGCCTGGGGCCTGGCAGGGAGGTGAGGCCCTGGAACCTCTATCTGGGCCTGGG  
CTAGGGGACATCAGAGGTTCTTTGAGGACTGCCTCTGCCCACTCTGACGCAAAACCACTTTCCTTTTCTATTCT  
CTTCTGGCCTTTCTCTCTCTCTGTTTCCCTTCCCTTCCACTGCCTCTGCCTTAGAGGAGCCACGGCTAAGAGGC  
TGCTGAAAACCATCTGGCCTGGCCTGGCCTGAGGAAAGGAGGGGAAGCTGCAGCTTGGGAGAGCCCTGG  
GGCTAGACTCTGTAACATCACTATCCATGCACCAACTAATAAAACCTTGACGAGTCACCTTCCAGGACCCCTG  
GGTAAAAAAAAAAAAA

3673/6881  
**FIGURE 3385**

MDPLNLSWYDDDLERQNWSRPFNGSDGKADRPYNYATLLTLLIAVIVFGNVLVCMASREKALQTTNYLIVS  
LAVADLLVATLVMPWVVYLEVVGEWKFSRIHCDIFVTLDVMMCTASILNLCAISIDRYTAVAMPMLYNTRYSSKR  
RVTVMISIVWVLSFTISCPLLFGLNNADQNECIANPAFVVYSSIVSFYVFFIVTLLVYIKIYIVLRRRRKRVNT  
KRSSRAFRAHLRAPLKGNCTHPEDMKLCTVIMKSNFSFPVNRRRVEAARRAQELEMELSSSTSPPERTRYSPIPP  
SHHQLTLDPDSHHGLHSTPDSPAKPEKNGHAKDHPKIAKIFEIQTMPNGKTRTSLKTMSRRKLSQQKEKKATQML  
AIVLGVFIIICWLPFFITHILNIHDCNIPPVLYSAFTWLGYVNSAVNPPIIYTTFNIEFRKAFLKILHC



3674/6881  
**FIGURE 3386**

GATGCTGATAAAGAGAAAGATTTCGAGAAATTTCTTAAAAATGTGGATGAAATCTCCAATTTAATTCAGGAGATG

AATTCTGATGACCCAGTTGTGCAACAGAAAGCTGTCCTGGAGACAGAAAAGAGACTACTGCTTATGGAGGAAGAC  
CAGGAGGAGGATGAATGCAGGACCACCTTGAACAAGACTATGATCAGTCCTCCACAACTGCTATGAAGAGTGCA  
GAAGAAATAAACTCAGAGGCCTTCTTGGCATCTGTGGAGAAGGATGCAAAGGAACGAGCCAAGAGAAGAAGGGAA  
AACAAAGTCTTGGCGGATGCCCTAAAAGAAAAAGGGAATGAAGCATTGTGCTGAAGGCAATTATGAAACAGCTATC  
CTGCGCTACAGTGAGGGTTTGGAGAAGCTGAAGGACATGAAAGTGCTGTACACCAACCGAGCCCAGGCTTATATG  
AAACTTGAGGACTATGAGAAGGCACTGGTGGATTGTGAGTGGGCTCTCAAGTGTGATGAAAAATGCACAAAAGCA  
TATTTTCACATGGGAAAAGCCAACCTGGCCCTGAAGAACTACAGTGTGCTAGAGAGTGTATAAGAAGATCTTA  
GAAATAAACCCCAAGCTGCAAACCCAGGTGAAAGGTTACCTGAATCAAGTAGATCTTCAGGAAAAAGCAGACCTT  
CAAGAAAAGGAAGCCCACGAAGTCTGGATTGAGGAAAGAACACAGCCGTGACCACCAAGAACCTCCTGGAGACC  
CTTTCCAAGCCTGACCAGATCCCCTTGTCTATGCTGGGGGATTGAGATCCTGACTGAAATGATAAATGAGTGC  
ACAGAACAACTTTATTGAGAATGCACAATGGATTTAGTATCATCAGTGACAACGAGGTCATAAGAAGGTGTTTT  
TCCACAGCAGGAAATGATGCAGTTGAAGAAATGGTCTGTGTGTCTGTTCTCAAGCTCTGGCAAGCAGTGTGCAGC  
AGGAACGAGGAAAACAGCGTGTGCTAGTGATACACCATGACAGGGCCAGGCTGTTGGCCGCCCTCTGTCTCTCC  
AAGGTCTGGCCATCCGGCAGCAGAGCTATGCCCTGCTGCTGCATCTCGCCAGACTGAGAGCGGACGGAGCCTG  
ATCATCAACCACCTTGACCTGACCAGATTATTGGAAGCGCTGGTGTCAATTTCTGATTTCTCGGATAAGGAGGCC  
AACACTGCTATGGGACTGTTACAGACTTGCTCTGGAAGAAAGATTCCAAGTCTGGTTCCAGGCCAACCTTCCA  
GGTGTCTCCCTGCACTCACAGGCGTTCTGAAGACAGATCCCAAGGTAAGCAGCTCCTCGGCTCTGTGCCAGTGC  
ATTGCCATCATGGGAAACCTCAGTGCTGAGCCCACTACCCGAAGACACATGGCGGCCTGTGAGGAATTTGGGGAT  
GGCTGCTTGAGCCTCCTGGCCAGGTGTGAGGAGGATGTGGACCTGTTGAGAGGTTATCTACACACTCCTGGGA  
CTCATGATGAACCTGTGTCTTCAGGCTCCCTTTGTCTCTGAGGTTTGGGCTGTGAGGTGAGCAGAAGGTGCCTG  
TCTTTACTAAACAGCCAGGATGGAGGAATCCTGACAAGAGCTGCTGGTGTCTGAGCCGGACCTTTCTTCTCTCT  
CTGAAATTTGTTGAGGAGGCCCTTGCAGCAGGAGTGGTAAAGAAAATGATGAAATTCCTGAAGACAGGAGGTGAG  
ACTGCATCACGTTATGCTATAAAGATACTAGCTATCTGCACGAATAGTTATCATGAAGCTCGGGAAGAAGTAATA  
AGACTGGATAAAAAGTTGAGCGTTATGATGAAGCTGCTCAGCTCGGAGGATGAGGTTCTGGTGGGCAACGCTGCC  
CTCTGCCCTTGGTAAGTGCATGGAGGTGCCCAACGTTGCGTCTTCCCTGCTAAAGACGGACCTTTTGGGGTCTTG  
TTAAAGCTTGAGGCAAGTGACACACAGAAGACGGCCGTGCAGGTGAACGCAGGCATTGCTCTGGGGAAGCTGTGC  
ACAGCTGAGCCCAGATTTGCTGCTCAACTGAGAAAGCTTCATGGCCTAGAAATTCCTCAACTCTACGATGAAATAC  
ATCAGTGATTCTTGAGAGAGACAGGGTTTTGTGTGCAATTTGGGGAACACACAGATGCACACCGTGTGTTGTTCTTA  
TGCTAATAAAGACCTTTGATGTATCCACTTCAAAAAAAAAAAAAA

3675/6881  
**FIGURE 3387**

MNSDDPVVQQKAVLETEKRLLLMEEDQEEDCRTLNTMISPPQTAMKSAAEINSEAFILASVEKDAKERAKRRR  
ENKVLADALKEKGNEAFAEGNYETAILRYSEGLEKLDKMKVLYTNRAQAYMKLEDYEKALVDCEWALKCDEKCTK  
AYFHMGMKANLALKNYSVSRECYKKILEINPKLQTQVKGYLNQVDLQEKADLQEKAEHELDSGKNTAVTTKNLLE  
TLSPDQIPLFYAGGIEILTEMINECTEQTLFRMHNGFSIISDNEVIRRCFSTAGNDAVEEMVCVSVLKLWQAVC  
SRNEENQRVLVIIHHDRAALLSSKVLAIQQSYALLHLAQTESGRSLIINHLDLTRLLEALVSFLDFSDKE  
ANTAMGLFTDLALEERFQVWFQANLPGVLPALTGVLTDPKVSSSSALCQCIAMGNLSAEPTTRRHMAACEEFG  
DGCLSLARCEEDVDLFREVIYITLLGLMMNLCLQAPFVSEVWAVEVSRRLSLLNSQDGGILTRAAGVLSRTLSS  
SLKIVEEALRAGVVKMMKFLKTGETASRYAIKILAICTNSYHEAREEVIRLDKKLSVMMKLLSSEDEVLVGNA  
ALCLGNCMEVPNVASSLLKTDLLRVLLKLAGSDTQKTAVQVNAGIALGKLCTAEPRFAAQLRKLHGLEILNSTMK  
YISDS

3676/6881  
**FIGURE 3388**

AAATATTTCAGGAAACAAAAATCACTCAAACGGAATCGAAGCCTTTTAAACAAAGAAAATGAAATACAGATGATGAT  
GATGATGATGAAGATGATGCTAAGTAAACAGAAATCAGTACTCCGCATGCGCTCCTCTCCTAAGGTACAAAGCAG  
CAAGAGGTTAGGGTGGCAAGGCTGCCTCTGGGTCCATTCTGTGGGCCACTCTCCCCAACGTTCTGACACTTCTGC  
AGTCTGATCAGTGGCGATGCTAGATTATAATTTCAAACGTGTGAAGAATAATGGTCTTGTCAATTTGCTCAATGTGG  
GGTTATGTTGCATTTTCTCAGCTCCTGGGGATGGAAATGGAGGATCCCAGAACACACAGCCCTGGCCCTTTGAT  
TCTAGGGCCTGCACAGATCTCTGGTTCAAATGCACAGGCCCTCAGAATAGAGGAACATGAAGAGAGATCTTAGAG  
CACACAGTAGAATGTGAGAGCCTGGGTGTCTGAGACCGGGAGGGCCCAGCAGTGAGGGGCAGGCTCTTCTGGTCA  
CCAGGCTGTTTCAGTGGACTCAGTTCTTCATCTTGTAAATGTCGATGGCTTTGCCACACCAGGCCAAGCCCATGCCA  
TACCTTGTCAAGACTGTCAAAGTGGTTGTGGTTAGGTCAAACCTGGTTTGGTTCTGATGGTTAGGAAGAAACAGG  
TCAGCCCTCAGATCACCTGGCCCGGGACAGCTGACCCCTAGAACCCTGGCTCTGCCATTAGCTAGGACCTAAGA  
CTCTGCCCACATTTTGGTCTGTTCTCTCCCATACACATAGGTTTGTCTCAGCATGCAAGAGTTTTTCCTTTAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAGCAATGCTTTCTCTAAAATCAAAGAGGGAGTCATTTTATTCCAAGATGTTT  
TATCTTTTATGTTAAGAGATCAAAGCTTATAATTTCTTTTTTAATTTTTGAAGGAGGGATCAACTCCAGTTTCC  
AATGCTATGTGCTATGCTGTGTATGTGCCATACATATGTATTACATGAAGACCGGCATGGCCAAGTTCTGCTG  
GAGGAGCACTCAAGTGTGACGAGCAGGGCCACTGGACCCTGCAGGGCTGTGGTGTATATAGTGCAGCTTTGGAGG  
TGGAACCTCTATTTTACACTTTTCTATGGAGCCTTCCGAGTCCCAGGTTTCACTTGAGGCTGTCTGTCTGGATG  
GCGGTTTTTCAGACCTCCATTAACATCCCTACCCAGCATTCTGTACTTCGGGGGCCTTCTCTCTGTTATAAACT  
TTTTACCAAGTGAAACATCGATACCACCTTTGTTTCCATTCTCACTGGTGTAAATACTGAGTACTAAGTGAAT  
TTTGACTTTGCATTCTGTGGAATACTTGTGTTCAATAAAAATTG

3677/6881  
**FIGURE 3389**

MCVCAIHMYSHEDRHGQVLEEHSVTSRATGPCRAVVYIVQLWRWNSIFTLFYGAFRVPGFHLRLSVWMAVFRP  
PLTSLPSILYFGGLLSCYKTFYQVKHRYHLCFHSWCKY

3678/6881  
**FIGURE 3390**

CCAGGAACGAGATGCGGGTTCTCTGGAGGCTGAGTGCCGTTTGGCGGTGCCCTAGGAGGCCGAGCTCTGTTGCTTC  
GAACTCCAGTGGTCAGACCTGCTCATATCTCAGCATTCTTCAGGACCGACCTATCCCAGAATGGTGTGGAGTGC  
AGCACATACACTTGTACCGAGCCACCATTCTGGCTCCAAGGCTGCATCTCTCCACTGGACTAGCGAGAGGGTTG  
TCAGTGTCTTCTGCTTGGGCTGCTTCCGGCTGCTTATTTGAATCCTTGCTCTGCGATGGACTATTCCCTGGCTG  
CAGCCCTCACTCTTCATGGTCAC TGGGGCCTTGGACAAGTTGTTACTGACTATGTTTCATGGGGATGCCTTGCAGA  
AAGCTGCCAAGGCAGGGCTTTTGGCACTTTAGCTTTAACCTTTGCTGGGCTTTGCTATTTCAACTATCACGATG  
TGGGCATCTGCAAAGCTGTTGCCATGCTGTGGAAGCTCTGACCTTTTGACTTCATACTTTGAAGAATTGATGTA  
TGCCTCTTTGCTCTGCTTTGTCTATGCCATTAAGCTCACAATAAGGAAGAAATAACAGATAAGTCCATTGGTGGA  
CAGCCTTCTTCTCTTAATCACAAGATTATTTTCAGAATTTAATCTTTGAGGAAAAGGTTGAGAGGAATTATATC  
TAAGTTGTGAGACTGAGTTCTATATTCTGGTGAGTTAATGGGGTTGCCTCCAGCTTCTTATAAGACTCACAGTA  
TAACTAAACATGATATATCAGCTTTTGCCTTTCAATTTATCAATCTCTTAAAGAGAATCCAACCTTTATTACGATT  
AGTATATGATCAAACCTCCATATTTGCCTTGGGAATAATGGACAAAGGGAAATACTCTTAATTCATGAATAAAAA  
CTTTGCAGAAAATTAGACAGTGTATAATTTTCGAAAACCTCCCTCTCTAGACAGTAGATAACCACTACTGATGGT  
TACATATACTAGGGAAATTTTAAATTAGGAAATGCTGATAGCTCATATTATAAATTTCTAAATCCTAGGAAGAA  
ACGCTTGGAGTGCCTTCTGAATATACAGAAGTTCCATTTAAGGGCAAGTTTCCCCGTAGATGTATCAAAATACTAC  
CAACTGTAAATTGAGATTTAATTTCCCAAATGTATTCTACTTGTTCTAAAACAATCTGTCCACAAATATAAACTA  
TAAGTAATAAATTGTTATTTTCGCACAATGGGAATCTCTAATGTGAAAATGTATTCTATGAAAATAATTTTTTAA  
ATAAAATGTTATATAATAAAAGTGTCTTCTATGCTTTT

3679/6881  
**FIGURE 3391**

MAVLWRLSAVCGALGGRALLLRTPVVRPAHISAFLODRPIPEWCGVQHIHLSPSHHSGSKAASLHWTSERVVSVL  
LLGLLPAAYLNPCSAMDYSLAAATLHGHWGLGQVVTDYVHGDALQKAAKAGLLALSALTFAGLCYFNYHVDVGIC  
KAVAMLWKL

3680/6881  
**FIGURE 3392**

CCGTGAGTCTGACCTTAGGTGCTCGTGTCTGGGGTTGATCCGAGCTGTGCGCCGCCGCCGCCGCAATGGGCAAAA  
CGGCCAACTCTCCGGGTTCCGGGAGCCCCGACCCGACCCGGTGCAGGAGCTTCAATCGCTGGAAGAAAAACACAGCC  
ATAGGCAGAACAAAAAGAAGCAGTTGAGGAAGCAACTGAAGAAACCCGAATGGCAGGTCGAGCGCGAGAGTATCA  
GCCGCCTCATGCAGAACTATGAAAAGATAAATGTAAATGAAATCACAAGATTTTCAGATTTTCCCTTGTCACAAA  
AAACATTGAAAGGTTTGCAAGAAGCTCAGTACCGTTTGGTGACTGAGATACAGAAGCAGACCATTGGATTGGCTT  
TGCAAGGTAAAGATGTACTTGGAGCGGCCAAAACCTGGATCTGGCAAGACTCTGGCTTTTCTTGTTCCAGTGCTGG  
AAGCCTTATATCGTCTGCAATGGACTTCAACAGATGGGCTGGGGGTTCTCATAATATCACCTACGAGAGAACTGG  
CCTATCAGACCTTTGAGGTTCTCCGAAAAGTAGGAAAGAATCATGACTTCTCAGCTGGTCTCATCATTTGGTGGA  
AGGATCTAAAACACGAAGCTGAGAGGATCAACAACATAAATATACTCGTGTGCACACCAGGTCCGGCTCTTCAAC  
ACATGGATGAAACAGTATCTTTTCATGCTACCGACCTCCAAATGTTAGTTCTTGATGAAGCAGATAGAATCTTGG  
ATATGGGCTTTGCTGATACCATGAATGCTGTTATTGAAAATCTCCCAAGAAACGTCAGACTTTACTTTTCTCAG  
CAACACAACTAAATCTGTAAAGGACCTTGCACGCTTGAGTTTGAAAAACCTGAGTATGTCTGGGTTTCATGAAA  
AAGCAAAATATAGCACCCCTGCCACTTTGGAACAGAACTACATAGTCTGTGAGCTGCAGCAAAAAATAAGTGTGC  
TGTATTCCTTTTGGAGAAGCCATCTGAAGAAGAAGAGCATTGATTTTTTTCCAGTTGCAAGAGGTCAGTATC  
TGTACCGAGTGTGTTGCCGGCTACGTCTGTTGTTCTATCCTTGCACTCCATGGTCGACAGCAGCAAAATGAGAA  
GAATGGAAGTCTATAATGAGTTTGTCCGTAAGAGAGCTGCAGTACTCTTTGCTACTGATATTGCAGCCAGGGGTC  
TGGATTTCCCGGCCGTGAATTGGGTTCTTCAGTTTGATTGTCTGAGGATGCCAACACATATATTACAGAGCAG  
GTAGAAGTCCAGGTACAAAGAGGATGGTGAAGCTTTGCTAATTTTGCTACCCTCAGAAAAAGCTATGGTGCAGC  
AGCTTCTTCAGAAAGAAAGTACCTGTGAAGGAAATCAAATCAATCCAGAAAAACTTATAGATGTCCAGAAAAAT  
TGGAATCTATTTAGCTCAAGATCAAGATTTAAAGAAAGAGCTCAAAGGTGTTTCGTCTCCTATGTACGATCTG  
TATATCTGATGAAGGATAAAGAAGTATTTGATGTGAGCAAGTTACCTATACCTGAATATGCCCTGTCTCTTGGTC  
TTGCTGTGGCACCACGCGTAAGATTTCTTCAGAAATGCAGAAACACCCACCAAAGAAATTGGTAAGGAGCCAAG  
CCGATAAAGTAATTGAGCCAAGGGCTCCCTCCCTACCAATGACGAAGTGAAGAATTAGAGCCTACTTCAATG  
AGAAAATGTCCATCCTTCAAAAAGGTGGAAAAAGACTCGAAGGGACAGAGCACAGACAGGATAATGATACTGGTA  
ATGAAGAACAGGAAGAAGAAGACGATGAAGAAGAAATGGAAGAGAAACTGGCAAAAGCAAAAGGATCTCAAG  
CCCCATCTCTTCTTAACACCAGTGAGGCACAGAAGATCAAGGAAGTTCTTACACAGTTCTTGGACAGAGATGAGG  
AGGAAGAAGATGCTGATTCTTGAAGGTGAAGCGGCATAATGTGTTTGGATTGGACCTTAAAGACGAGAAAAAT  
TACAGAAGAAAGAACCTTCTAAATCCAGCATCAAGAAAAAATGACCAAGTTGCAGAAAGCAAAAAAGTAATGA  
AGAGAAATTTTAAAGTGAATAAGAAGATAACATTTACTGATGAAGGGGAGTTGGTTTCAGCAGTGGCCACAAATGC  
AGAAATCTGCCATCAAGGATGCTGAGGAAGATGATGACACAGGTGGTATCAACTTACATAAAGCAAAAGGAAAGAC  
TTCAGGAAGAGGACAAATTTGACAAAGAAGAATATAGGAAAAAATTAAGGCAAAGCATCGGGAGAAAAGACTGA  
AAGAAAGGGAAGCCAGAAGAGAAGCCAACAAGAGACAAGCAAAGGCCAAAGATGAAGAGGAAGCCTTTCTGGATT  
GGAGTGAT  
CTGAAGATTGAT  
GCAACAGTGAAGTGAAGACGTGGGACCAACAAGTCATAACAGAAAGAGGCCAGGTGGGACACTTTAGAGCCTT  
TGGATACCGGCTGTCTTTAGCAGAGGATGAAGAGCTGGTGTTACATCTGCTAAGAAGTCAAAGCTAAATACTTC  
CTGCGCCTGCCTTCTCCTTGAACCTTGGTTATGACTGCGTAGGCAAGAAGTTGAAAAACAGTTGATTTGGGGGC  
ACTTAGGTACCATATGCCCCATTCCCAAAGGGCACATTTCTGGATAGAAGCGATCGTATCTCCAAGTCCCTCTCA  
CAGGACATGCTTTGTGCCATCACTGAGCATACTCAGATCGAGGGTGGATGATACCATTTCTGACCCCGTTTTCC  
AGCATGTGTTCTGTTAGATTTTTATCCATGGGTTCTACGCCTTGTCATTGGAAACACTGCCTTTGTCTTACTGG  
CAAGTTCTGGAGCTCTTGTGTCATTGTTAGAAATCCCTGTCTTGCTTACTGTACAGAAGTTTCTGTTGCTGTAA  
AATTGCTCATGATTTCGACGTATTTAATATTTTCAAAGAGACTATGATGGACCAGCCCTGAGAAAGAATGAGTAT  
TTTTGAATTGAGATGATCAATAATAACATATTTCTATAAAAAA

3681/6881

**FIGURE 3393**

MGKTANSPGSGARPDVRSFNRWKKKSHRQNKKKQLRKQLKKPEWQVERESISRLMQNYEKINVNEITRFSDFP  
LSKKTILKGLQEAQYRLVTEIQKQTIGLALQGKDVLGAAKTGSGKTLAFLVPVLEALYRLQWTSTDGLGVLIISPT  
RELAYQTFEVLRKVGKNHDFSAGLIIGGKDLKHEAERINNINILVCTPGRLLQHMDETVSFHATDLQMLVLDEAD  
RILDMGFADTMNAVIENTLPPKKRQTLLFSATQTKSVKDLARLSLKNPEYVWHEKAKYSTPATLEQNYIVCELQQK  
ISVLYSFLRSHLKKKSIVFFSSCKEVQYLYRVFCRLRPGVSILALHGRQQQMRMEVYNEFVRKRAAVLFATDIA  
ARGLDFPAVNWVLQFDCPEDANTYIHRAGRTARYKEDGEALLILLPSEKAMVQQLLQKKVPVKEIKINPEKLIDV  
QKKLESILAQDQDLKERAQRCFVSIVRSVYLMKDKEVFDVSKLPIPEYALSLGLAVAPRVRFLOKMQKQPTKELV  
RSQADKVIEPRAPSLTNDEVEEFRAVFNEKMSILQGGKRLEGTEHRQDNDTGNEEQEEEEDEEEMEELAKAK  
GSQAPSLPNTSEAQKIKEVPTQFLDRDEEEEDADFLKVRHNVFGLDLKDEKTLQKKEPSKSSIKKKMTKVAEAK  
KVMKRNFVNKKITFTDEGELVQQWPQMOKSAIKDAEEDDDTGGINLHKAKERLQEEDKFDKEEYRKKIKAKHRE  
KRLKEREAREANKRQAKAKDEEEAFLDWSDDDDDDDDGFDPSLTPDPDKYRSEDSDSDMENKISDTKKKQGM  
KKRSNSEVEDVGPTSHNRKKARWDTLEPLDTGLSLAEDEELVLHLLRSQS



3682/6881  
**FIGURE 3394**

ATTCAGTAAACCACTGGGAGTCCGGCAGCATGAAGGCAGCGGCCCTCCCATGACTGCAGGGAAGTTCATGGTGG  
TCGGCGGCGGCATCGCGGGCGTCACTTGTGCGGAGCAGTTGGCTACTCACTTTCCATCAGAAGATATTCTCTGG  
TAACAGCTTCTCCTGTTATGAAAGCAGTTACAAATTTCAAGCAGATTTCTAAATATTGGAAGAATTTGATGTTG  
AAGAACAATCAAGTACCATGTTAGAAAAACGCTTTCCCAACATCAAGGTTATAGAATCTGGCGTAAAGCAACTGA  
AGAGTGAAGAACACTGCATTGTAACAGAAGATGGCAATCAGCATGTATATAAGAACTCTGTGTGCTGGAGCTAA  
ACCAAAGTTGATATGTGAAGGAAATCCTTATGTATTAGGAATCCGTGATACAGACAGTGCTCAGGAATTTCAGAA  
ACAGCTTACTAAAGCTAAAAGAATAATGATCTTAGGGAACGGTGGTATCGCACTTGAGTTAGTGTATGAAATTGA  
AGGCTGTGAAGTGATTTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTCTTCGATGCAGGAGCAGCTGAATT  
CTTGACTTCAAAGCTCATTGCTGAAAAATCAGAGGCTAAAATTGCATATAAAAGAACCAGATATACAACCTGAAGG  
AAGGAAAAAGGAAGCTAGAAGCAAATCTAAATCAGATAATGTAGGCAGTGCGTTGGGACCAGATTGGCATGAAGG  
CTTGAATCTTAAAGGAACAAAAGAGTTTTCTCATAAGATTACCTTGAAGCTATGTGTGAAGTAAAGAAAATCTA  
CCTTCAGGATGAGTTTAGAATTTTGAAGAAAAAGTCCTTCACTTTTCCAAGAGACCATACGTCAGTTACAACATA  
TACAGAGATGTGGCCTGCTATGTGGAATTGACCAATGAAAAGATATATGGCTGCGATTTCATTGTCAGTGCTAC  
AGGAGTTACACCGAATATAGAACCTTTTCTCCATGGTAACAGTTTTTGATCTAGGAGAAGATGGTGGCCTGAAAGT  
GGATGATCATATGCACACATCCCTTCTGATATCTATGCTGCCGGTGACATCTGTACTACATCCTGGCAGCTGAG  
CCCAGTCTGGCAGCAGATGAGGCTGTGGACCCAGGCTAGACAGATGGGATGGTATGCAGCAAAGTGCATGGCTGC  
AGCGAGTTCAGGAGACTCTATTGACATGGATTTTCACTTTGAACTGTTTGCTCATGTGACAAAATTTTTTAACTA  
TAAGGTTGTACTGCTGGGAAAATACAATGCACAGGGCTTAGGTTTCAATCATGAATTAATGCTGAGATGTACCAA  
AGGACAAGAATACATCAAAGTCGTATGCAAAATGGACGAATGATGGGAGCTTCTTAATTGGTGAAACTGATTT  
AGAAGAAACATTTGAAAACCTAATCTTAAACCAAATGAATCTTTCATCATATGGAGAAGATCTGCTAGATCCAAA  
TATTGATATAGAAGATTATTTGACTAAAAATGGAATTTCTTCAAGAATCATATAAAGTTCCAAATGACACCAGA  
AAAATCACAAGTCAATAAAATGAATGACTGTATTGAGTTAATGATGACCACACTGAAAATTACAGAAGTGATAAT  
GATATTAGTGGAATAATATAAAAACATAAATCTAAGTTTGAAATCAGTTCAAAGTTTATTTATAGATATATCTT  
TCCAATACAACACTGACCACTTGGATAAAAAATCTTAAGTTATTTATTTCTGTGTTTTAAACATAAATATGTTTAC  
TTGTGATTTAGCTTTGGAGCAAATTTAGGTAAGTTATCTATTTAGCCAAATGTACTCTAGTAGATTAGAACCATT  
CTTTGTGAAATGTCAAATATGGCTGTGGTTTCAGGAACTTTAAAATCGGTTGTATTTTACTTTAAATAGAGATG  
TAGCAATATCTCGTTTGCTAATATTTATATTGATGACTTACTCCTTTTTTGTGAAATTGTACTTCTGGTTTTATA  
ACCTGAAATCATCTACAAGCTTGTCCAACCTTAGCCACGGGTGGAATGCAGCCAGGACAGCTTTGAATGCAGC  
CCAACACAAATTTGTAAACTTCTTAAACTTGAGATTTTTCTTGCAATTTTTTTTTTAAAGCTTATCAGCTATCGT  
CAGTGTTAGCATGTTTTATGTGCGGCCCAAGACAATCTTCTTCCAGTGTTGGCTCAGGGAAGCCAAAAGATTGGA  
CATCCCTGATCTACATATTTAACTTAAAGTATCACTCAGTGAGCCTCTGTGCTAGTGAATATTGCTTTCAAAAAGA  
TAGTTATGTCAAAAGAAAAAATATAGCTAAGTATATAAAGGCATAAAAACTTAAAGACAATTATATGGACTTATT  
CTCAAATATTTTACATTTTTTGTAAACTTTCTTAAACATGAGATTTTTCTTGCAATTTTTTTTTTAAAGCTCATC  
AGCTGTCATCAGTGTTAGCATATTTTATGTGAGGCCCAAGACAATTTCTTCTCCAATGTGGCTCAGGGAAGCCAA  
AAGATTGGACATCCCTGATCTACATATTTAACTTAAAGTATCACTCATTGAAATTTCTTTTAAAAACTATTGTCTA  
ACTACAAAAATAGTGGCATATACATGCATAAACCATCTTTAATTAGAAAATTTAGTAACATTCATGTCAGGCATC  
ATCGATTTTTCTTTTTCTTAGCTCCTGTATTCTTAGAACCAGATTGCTGAAGCATGTTTGCAGCCTTCTTCTGGAA  
GTTGCCGTGAATTTTTTTTCTCCATCTTTTTTATCACCTTGTTTCAAGATGACAAGTTTGAAGACGATTGAGCCTAC

3683/6881  
**FIGURE 3395**

GGCACGAGGCTGCCGCGCTGTCCGCGTTATCTCCTCCCGGTGAGAACGAACCGCAGTGTCCACCGGCGAGGAGCC  
AGCCCTGTCCCGGTCAGAGAAAGACGACGAGGATACCTGGGAGCGGGCGGCGCCGGGCTGGGCCGCGCCGGTGC  
GGGCTGGCGACTCTGCTCCTCCGCTTGCTGTCTCTGGGAACTGGGTGCCAGCGCTGAGGGGCTTCCAGCGGA  
CAGGGACCCCTTCCCCGGCTCCCTGCCACCCTGCCGGGAGGGCGGAAGATGCCGGTGAAGAAGAAGAGAAA  
ATCCCTGGGGTGGCAGCAGCAGTAGCGGAAGACGGAGGCCTCAAAAAGTGTAATAATCTCCAGCTATTGCAGATC  
CCAACCCCTGCTAGACTAATAAGTGGAGAGGAACATTTTTCAAGCAAGAAGTGCCTGGCTTGGTTTTATGAATA  
TGCAGGTCTGATGAAGTTGTAGGGCCAGAAGGAATGGAATAATTTTTGTGAAGACATTGGTGTGAACCTGAAAA  
TATTATTATGTTAGTTTTAGCGTGGAAATTGGAGGCTGAAAGCATGGGATTTTTTACCAAGGAAGAATGGTTAAA  
GGGAATGACTTCATTACAGTGTGACTGCACAGAAAAGTTACAAAACAAATTTGACTTTTTGCGCTCACAGTTGAA  
TGATATTTCGTCATTTAAGAATATCTACAGATATGCCTTTGATTTTGCAAGGGATAAAGATCAGAGAAGCCTTGA  
TATTGATACTGCTAAATCTATGTTAGCTCTTCTGCTTGGGAGGACATGGCCACTGTTTTCAGTATTTTACCAGTA  
CCTGGAGCAATCAAAGTATCGTGTTATGAACAAAGATCAATGGTACAATGTATTAGAATTCAGCAGAACAGTCCA  
TGCTGATCTTAGTAATATGATGAAGATGGTGCTTGGCCTGTTCTTCTTGATGAATTTGTTGAGTGGCAAAAAGT  
CCGTCAGACATCATAGCAAGAATATGTGAAGAAAATGCAACCTTTCAATTCACAGTGTATACAAGCTAATGT  
GATGAGGGGGAAAAAATCCAACGGGTGCATTTTCATTCATATGAAAGACTTCTCATAGTACTTTTTTTTCTTT  
TTTTAAAGGAGGTTTTTCTTGTTACATGTGATGGGCATTGAGCCACACCTCTTCTAGACTGAATATTGAAGTTT  
TTGTTTTGAGTTATGTTTATAACATTTATTTCAACAATAAAGATTGAGATTGTGAAAAAAAAAAAAAAAAA  
AAAAAAAAA

3684/6881  
**FIGURE 3396**

MPVKKRKSPGVAAVAEDGGLKKCKISSYCRSQPPARLISGEEHFSSKKCLAWFYEYAGPDEVVGPEGMEKFCE  
DIGVEPENIIMLVLAWKLEAESMGFFTKEEWLKGMTSLQCDCTEKLQNKFDLRSQLNDISSFKNYRYAFDFAR  
DKDQRSLDIDTAKSMLALLLGRTWPLFSVIFYQYLEQSKYRVMNKDQWYNVLEFSRTVHADLSNYDEDGAWPVLLD  
EFVEWQKVRQTS

3685/6881  
**FIGURE 3397**

CCCAGCCCGGCCCGCCCGCCCGGCTGCGCACGCGACGCCCCCTCCAGGCCCGCTCCTGCGCCCTATTTGGTCA  
TTCGGGGGGCAAGCGGCGGGAGGGGAAACGTGCGCGGCCGAAGGGGAAGCGGAGCCGGCGCGGCTGCGCAGAGG  
AGCCGCTCTCGCCCGCCACCTCGGCTGGGAGCCCACGAGGCTGCCGCATCCTGCCCTCGGAACAATGGGACTC  
GGCGCGGAGGTGCTTGGGCCGCGCTGCTCCTGGGGACGCTGCAGGTGCTAGCGCTGCTGGGGGCCGCCCATGAA  
AGCGCAGCCATGGCGGAGACTCTCCAACATGTGCCTTCTGACCATACAAATGAACTTCCAACAGTACTGTGAAA  
CCACCAACTTCAGTTGCCTCAGACTCCAGTAATACAACGGTCACCACCATGAAACCTACAGCGGCATCTAATACA  
ACAACACCAGGGATGGTCTCAACAAATATGACTTCTACCACCTTAAAGTCTACACCCAAAACAAGTGTTC  
CAGAACACATCTCAGATATCAACATCCACAATGACCGTAACCCACAATAGTTCAGTGACATCTGCTGCTTCATCA  
GTAACAATCACAACACTATGCATTCTGAAGCAAAGAAAGGATCAAAATTTGATACTGGGAGCTTTGTTGGTGGT  
ATTGTATTAACGCTGGGAGTTTTATCTATTCTTTACATTGGATGCAAAATGTATTACTCAAGAAGAGGCATTTCGG  
TATCGAACCATAGATGAACATGATGCCATCATTTAAGGAAATCCATGGACCAAGGATGGAATACAGATTGATGCT  
GCCCTATCAATTAATTTTGGTTTTATTAATAGTTTAAACAATATTCTCTTTTGAAGATAGTATAACAGGCCAT  
GCATATAATGTACAGTGTATTACGTAAATATGTAAAGATTCTCAAGGTAACAAGGGTTTGGGTTTTGAATAAA  
CATCTGGATCCTTATAGACCGTTCATACAATGGTTTTAGCAAGTTCATAGTAAGACAAACAAGTCTATCTTTTT  
TTTTTTGGCTGGGGTGGGGCATTGGTCACATATGACCAGTAATTGAAAGACGTCATCACTGAAAGACAGAATGC  
CATCTGGGCATACAAATAAGAAGTTTGTACAGCACTCAGGATTTTGGGTATCTTTTGTAGCTCACATAAAGAAC  
TTCAGTGCTTTTCAGAGCTGGATATATCTTAATTACTAATGCCACACAGAAATTATACAATCAAAGTATCTGA  
AGCATAATTTAAGAAAAACATCAACATTTTGTGCTTTAACTGTAGTAGTTGGTCTAGAAACAAAATACTCCA  
AGAAAAAGAAATTTTCAAATAAAACCCAAAATAATAGCTTTGCTTAGCCCTGTTAGGGATCCATTGGAGCATT  
AGGAGCACATATTTTTATTAACCTCTTTTGAAGCTTTCAATGTTGATGTAATTTTGTCTCTGTGTAATTTAGGT  
AAACTGCAGTGTTTAAACATAATAATGTTTTAAAGACTTAGTTGTCAGTATTAATAATCCTGGCATTATAGGGAA  
AAAACCTCCTAGAAGTTAGATTATTTGCTACTGTGAGAATATTGTCAACACTGGAAGTTACTTTAGTTTCATTTAA  
TTTTAATTTTATATTTTGTGAATATTTTAAAGACTGTAGAGCTGCTTTCAATATCTAGAAATTTTAAATTGAGTG  
TAAACACACCTAATTTAAGAAAAAGAACCGCTTGTATGATTTTCAAAGAACATTTAGAATTCTATAGAGTCAA  
AATATAGCGTAATGCTGTGTTTTATTAAGCCAGGGATTGTGGGACTTCCCCAGGCAACTAAACCTGCAGGATGA  
AAATGCTATATTTTCTTTCATGCACTGTGATATTACTCAGATTTGGGGAATGACATTTTATACTAAAACAAA  
CACCAAAATATTTTAGAATAAAATCTTAGAAAAGTTTTGAGAGGAATTTTLAGAGAGGACATTTCTCCTTCCTGA  
TTTGGATATTTCCCTCAAATCCCTCCTCTTACTCCATGCTGAAGGAGAAGTACTCTCAGATGCATTATGTTAATGG  
AGAGAAAAAGCACAGTATTGTAGAGACACCAATATTAGCTAATGTATTTTGGAGTGTTTTCCATTTTACAGTTTA  
TATTCCAGCACTCAAACCTCAGGGTCAAGTTTTAACAAAAGAGGTATGTAGTCACAGTAAATACTAAGATGGCAT  
TTCTATCTCAGAGGGCCAAAGTGAATCACACCAGTTTCTGAAGGTCCTAAAAATAGCTCAGATGTCCTAATGAAC  
ATGCACCTACATTTAATAGGAGTACAATAAACTGTTGTCAGCTTTTGTGTTTACAGAGAACGCTAGATATTAAGA  
ATTTTGAAATGGATCATTTCTACTTGCTGTGCATTTTAAACCAATAATCTGATGAATATAGAAAAAATGATCCAA  
AATATGGATATGATTGGATGTATGTAACACATACATGGAGTATGGAGGAAATTTCTGAAAAATACATTTAGATT  
AGTTTAGTTTGAAGGAGAGGTGGGCTGATGGCTGAGTTGTATGTTACTAAGTGGCCCTGACTGGTGTGCAACC  
ATTGCTTCATTTCTTTGCAAAATGTAGTTAAGATATACTTTATTCTAATGAAGGCCTTTTAAATTTGTCCACTGC  
ATTCTTGGTATTTCACTACTTCAAGTCAGTCAGAACTTCGTAGACCGACCTGAAGTTTCTTTTGAATACCTGTT  
TCTTTAGCACTTTGAAGATAGAAAAACCACTTTTAAAGTACTAAGTCATCATTTGCCTTGAAAGTTTCTCTGCA  
TTGGGTTTGAAGTAGTTTAGTTATGCTTTTTCTCTGTATGTAAGTAGTATAATTTGTTACTTTCAAATACCCGT  
ACTTTGAATGTAGGTTTTTTTGTGTTGTTATCTATAAAATTTAGGGAAATGGTTATGCAAAAAAATATTTTGC  
TTTGGACCATATTTCTTAAGCATAAAAAATGCTCAGTTTTGCTTGCAATTCCTTGAGAATGTATTATCTGAAG  
ATCAAAACAAACAATCCAGATGTATAAGTACTAGGCAGAAGCCAATTTTAAATTTCTTGAATAATCCATGAAA  
GGAATAATTCAAATACAGATAAACAGAGTTGGCAGTATATTATAGTGATAATTTGTATTTTCAAAAAAAG  
TTAACTCTTCTTTTCTTTTATATAATGACCAGCTTTTGGTATTTTATTGTTACCAAGTTCTATTTTAGAAT  
AAAATTGTTCTCCTTCTAAAA

3686/6881  
**FIGURE 3398**

CACACAGCCTACTTTCCAAGCGGAGCCATGTTTGGTAACGGCAATGCGGCTGCAACGGCGGAAGAAAACAGCCCA  
AAGATGAGAGTGATTGCGGTGGGTACCCGCAAGAGCCAGCTTGCTCGCATACAGACGGACAGTGTTGGTGGCAACA  
TTGAAAGCCTCGTACCCTGGCCTGCAGTTTGAAATCATTGCTATGTCCACCACAGGGGACAAGATTCTTGATACT  
GCACTCTCTAAGATTGGAGAGAAAAGCCTGTTTACCAAGGAGCTTGAACATGCCCTGGAGAAGAATGAAGTGGAC  
CTGGTTGTTCACTCCTTGAAGGACCTGCCCCTGTGCTTCCTCCTGGCTTCACCATCGGAGCCATCTGCAAGCGG  
GAAAACCTCATGATGCTGTTGTCTTTCACCCAAATTTGTTGGGAAGACCCTAGAAAACCTGCCAGAGAAGAGT  
GTGGTGGGAACCAGCTCCCTGCGAAGAGCAGCCAGCTGCAGAGAAAGTTCCCGCATCTGGAGTTCAGGACGGGG  
GAAACCTCAACACCCGGCTTCGGAAGCTGGACTATTATCTCGAGTTCAGTGCCATCATCCTGGCAACAGCTGGCC  
TGCAGCGCATGGGCTGGCACAACCGGGTGGGGCAGATCCTGCACCCTGAGGAATGCATGTATGCTGTGGGCCAGG  
GGGCCTTGGGCGTGGAAAGTGCAGCCAAGGACCAGGACATCTGGATCTGGTGGGTGTGCTGCACGATCCCGAGA  
CTCTGCTTCGCTGCATCGCTGAAAGGGCCTTCCTGAGGCACCTGGAAGGAAGCTGCAGTGTGCCAGTAGCCGTGC  
ATACAGCTATGAAGGATGGGCAACTGTACCTGACTGGAGGAGTCTGGAGTCTAGACGGCTCAGATAGCATAACAAG  
AGACCATGCAGGCTACCATCCATGTCCCTGCCCAGCATGAAGATGGCCCTGAGGATGACCCACAGTTGGTAGGCA  
TCACTGCTCGTAACATTCCACGAGGGCCCCAGTTGGCTGCCCAGAACTTGGGCATCAGCCTGGCCAACCTTGTTC  
TGAGCAAAGGAGCCAAAAACATCCTGGATGTTGCACGGCAGCTTAACGATGCCCATTAACTGGTTTGTGGGGCAC  
AGATGCCTGGGTTGCTGCTGTCCAGTGCCTACATCCCGGGCCTCAGTGCCCCATTCTCACTGCTATCTGGGGAGT  
GATTACCCCGGGAGACTGAACTGCAGGGTTCAAGCCTTCCAGGGATTTCCTCACTTGGGGCCTTGATGACTGC  
CTTGCTCCTCAGTATGTGGGGCTTCATCTCTTTAGAGAAGTCCAAGCAACAGCCTTTGAATGTAACCAATCCT  
ACTAATAAACAGTTCTGAAGGT

3687/6881  
**FIGURE 3399**

ACAGCAGTTACACTGCGGCGGGCGTCTGTTCTAGTGTGTTGAGCCGTCGTGCTTCACCGGTCTACCTCGCTAGCAT  
GTCGGGCCGCGGCAAGACTGGCGGCAAGGCCGCGCCAAGGCCAAGTCGCGCTCGTCGCGCGCCGGCCTCCAGTT  
CCCAGTGGGCGGTGTACACCGGTGCTGCGGAAGGGCCACTACGCCGAGCGCGTTGGCGCCGGCGCGCCAGTGTA  
CCTGGCGGCAGTGCTGGAGTACCTACCGCTGAGATCCTGGAGCTGGCGGGCAATGCGGCCCGCGACAACAAGAA  
GACGCGAATCATCCCCCGCCACCTGCAGCTGGCCATCCGCAACGACGAGGAGCTCAACAAGCTGCTGGGCGGCGT  
GACGATCGCCAGGGAGGCGTCTGCCCAACATCCAGGCCGTGCTGCTGCCAAGAAGACCAGCGCCACCGTGCG  
GCCGAAGGCGCCTCGGGCGGCAAGAAGGCCACCCAGGCCCTCCCAGGAGTACTAAGAGGGCCCGCGCCGCGGCCG  
GCCGCCAGGCCTCCCCATGCCACCACAAAGCCCTTTTAAAGGGCCACCACCGCCCTCATGGAAAGAGCTGAGCCG  
CTTCAGACTGCGGGGCAAGCGGGCCGCGGCTCCCTTCCCCTCCCCTCCCCTCGCCCGCCTTCGCCGCCCGGCCTC  
GAGTCCCCCGCCCGCCCCGCTCCCGTCCCGCACCGCCTGCCGCGTCGGCCTCGGGCCCTGCCCTGTCCGCCGTCC  
GCCCTCCGGTAGGGTTTCGGGCCTTCGGGATGCGGCTTGGGCGCTCTTCGGGGACCTCCGTGGCGCGGAAGACCCG  
AGCCTGCCGGGGGGAGGCCGGCGGCGCCGACCTGCCCGCCTCGGCGTTCGTGACTCAGCCGCCCATCCCGAGT  
CGCTAAGGGGCTGCGGGGAGGCCGAGCACCTTCTGGAAGACTTGGCCTTCCGCTCTGACGCAGGGCCGAGGTGG  
GCAGTCCAGGCCGAGAGGCCGGCGGCCCTGAAGGTGAGTGAGGCCCTCGGCAGCTGCAGCCGGGGTGTCTGGTAC  
CCCCCGGCGTGGTGCTTAGCCAGAATTTTCAGACGCGGCGGCTGGCCGGGAGGCTTTGGTGGGAGAGACGCGA  
TCCCCAATTTGGTCTGGCGCCCTTCTGCGGCCGGGACCCAGGCCCTTTCACATCAGCTCTCCCTCCATCTTCAT  
TCATAGGTCTGCGCTGGGGCCGGGACGAACCACTTGGTAACAGGCACATCTTCCTCCCGAGTGACTGCCTCCTAG  
GAGGACATTTAGGGGAGGGCAGAGGCCTGCAGTTTGGCTTCACGGCTGGCTATGTGGACAGCAAGAGTCGTTTTT  
GCGGAAGCCGACTGGCAGCCAGGCCTGTCGGGCCCGCCGACGCCGCCCATTTCCCTCCAGCAAACCTCAACTCG  
GCAATCCAAGCACCTAGATACCAGCACAAGTCGGTTAATCCCTGTCTGGACTGAGCCTCCGTTGGCTTCTGAAC  
GGAATTCTGCAGCTAACCTTCCACGACTAGAACCTTAGGCATTGGGGAGTTTTAGATGGACTAATTTATTAA  
GGATTGTTTTTTTTT

3688/6881  
**FIGURE 3400**

CGGAATTGCCCATGCCGCTGCTGATCAATTTGATCGTCTCGCTGCTGGGATTTGTGGCCACAGTCACCCTCATCC  
CGGCCTTCCGGGGCCACTTCATTGCTGCGCGCCTCTGTGGTCAGGACCTCAACAAAACCAGCCGACAGCAGATCC  
CAGAATCCCAGGGAGTGATCAGCGGTGCTGTTTTCCCTTATCATCCTCTTCTGCTTCATCCCTTTCCCCTTCCTGA  
ACTGCTTTGTGAAGGAGCAGTGTAAGGCATTCCCCCACCATGAATTTGTGGCCCTGATAGGTGCCCTCCTTGCCA  
TCTGCTGCATGATCTTCTGGGCTTTGCGGATGATGTACTGAATCTGCGCTGGCGCCATAAGCTGCTGCTACATA  
CAGCTGCCTCACTACCTCTCCTCATGGTATATTTACCAACTTTGGCAACACGACCATTGTGGTGCCCAAGCCTT  
TCCGCCCCGATACTTGGCCTGCATCTGGACTTGGGAATCCTGTACTATGTCTACATGGGGCTGCTGCAGTGTTCTG  
TACCAATGCCATCAATATCCTAGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCATTTCTGCTTCCAT  
CATTGTCTTCAACCTGGTAGAGTTGGAAGGTGATTGTCGGGATGATCATGTCTTTTCCCTCTACTTCATGATACC  
CTTTTTTTTACCACCTTTGGGATTGCTCTACCACAACCTGGTACCCATCACGGGTGTTTGTGGGAGATACCTTCTG  
TTACTTTGCTGGCATGACCTTTGCCGTGGTGGGCATCTTGGGACACTTCAGCAAGACCATGCTACTATTCTTCAT  
GCCCCAGGTGTTCAACTTCCTCTACTCACTGCCTCAGCTCCTGCATATCATCCCCTGCCCTCGCCACCGCATACC  
CAGACTCAATATCAAGACAGGCAAACTGGAGATGAGCTATTCCAAGTTCAAGACCAAGAGCCTCTCTTTCTTGGG  
CACCTTTATTTTAAAGGTGGCAGAGAGCCTCCAGCTGGTGACAGTACACCAGAGTGAGACTGAAGATGGTGAATT  
CACTGAATGTAACAACATGACCCTCATCAACTTGCTACTTAAAGTCCTTGGGCCCATACATGAGAGAAACCTCAC  
ATTGCTCCTGCTGCTGCTGCAGATCCTGGGCAGTGCCATCACCTTCTCCATTGATATCAGCTCGTTCGACTCTT  
CTATGATGTCTGAGTCCCTTGATCATTGTCTTTACCTCACAGTCTCTAGGATTCTGACTCAGGCTGACCTCTC  
TCTCTGGTCCCAGACTGCCTCCTTGCCCAGGCCTCTCTCACTCTTCATACTCCTCCAGATTTTGTCTCAGCATT  
TTCCTTCTCTGTGATCATTGGCATCCTGGGCGTTTCTTGCCCTCTGCTGACTACTGATTGGATTTTACCTATGG  
CTTCTGCAACTTGCTACTCTCTCCCTCTCCATCCCATCTTTGCAGCCTCATAGGGTGGGATACAGCAGCTTTT  
TTGCAGTTATCCACACTCACATTTAGAGTCTGACTCTCAAGGAACCACTGGTTTTTGGGATAGAACTTGGGCC  
AGGGCTAGGAACACAGGCTCCACGGTGACATGTCATTTGATTGTAAATTAAGTGTTCTGATTAGTAAGAATAAG  
CAGGGGGCCACATGCTCTCAATGGAGACAATAAAGTGTTGTCTTTTTCTT

3689/6881  
**FIGURE 3401**

AGGCTCTTGCAGCCAATGCCGGAACAGGATTGCTGTTGCTGAGCCTCAAATCGCAATGTTTTGTGGGAAGTTAA  
ATATGCATGTGAACATTGAGACTGGGAAATGGGAACCTGATCCAACAGGCACCAAGAGCTGCTTTGAAACAAAAG  
AAGAAGTTCTTCAGTACTGTGAGGAGATGTATCCAGAGCTACAGATCACAAATGTGATGGAGGCAAACCAGCGGG  
TTAGTATTGACAACCTGGTGCCGGAGGGACAAAAAGCAATGCAAGAGTCGCTTTGTTACACCTTTCAAGTGTCTCG  
TGGGTGAATTTGTAAGTGATGTCCTGCTAGTTCCAGAAAAGTGCCAGTTTTTCCACAAAGAGCGGATGGAGGTGT  
GTGAGAATCACCAGCACTGGCACACGGTAGTCAAAGAGGCATGTCTGACTCAGGGAATGACCTTATATAGCTACG  
GCATGCTGCTCCCATGTGGGGTAGACCAGTTCCATGGCACTGAATATGTGTGCTGCCCTCAGACAAAGATTATTG  
GATCTGTGTCAAAAGAAGAGGAAGAGGAAGATGAAGAGGAAGAGGAAGAGGAAGATGAAGAGGAAGACTATGATG  
TTTATAAAAAGTGAATTTCTACTGAAGCAGATCTGGAAGACTTCACAGAAGCAGCTGTGGATGAGGAATGATGAGG  
ATGAGGAAGAAGGGGAGGAAGTGGTGGAGGACCGAGATTACTACTATGACACCTTCAAAGGAGATGACTACAATG  
AGGAGAATCCTACTGAACCCGGCAGCGACGGCACCATGTGAGACAAGGAAATTACTCATGATGTCAAAGCTGTCT  
GCTCCCAGGAGGCGATGACGGGGCCCTGCCGGGCCGTGATGCCCTCGTTGGTACTTCGACCTCTCCAAGGGAAAGT  
GCGTGCGCTTTATATATGTTGGCTGCCGGCGGCAACAGGAACAATTTTGAAGTCTGAGGATTATTGTATGGCTGTGT  
GTAAAGCGATGATTCTCCAACTCTCTGCCAACCAATGATGTTGATGTGTAATTCGAGACCTCTGCAGATGATA  
ATGAGCATGCTCGCTTCCAGAAGGCTAAGGAGCAGCTGGAGATTGGGCACCGCAACCGAATGGACAGGGTAAAGA  
AGGAATGGGAAGAGGCAGAGCTTCAAGCTAAGAACCTCCCCAAGCAGAGAGGCAGACTCTGATTCAGCACTTCC  
AAGCCATGGTTAAAGCTTTAGAGAAGGAAGCAGCCAGTGAGAAGCAGCAGCTGGTGGAGACCCACCTGGCCCGAG  
TGGAAGCTATGCTGAATGACCGCCGTGGATGGCTCTGGAGAAGTACCTGGCTGCCCTGCAGTCTGACCCGCCAC  
GGCCTCATCGCATTCTCCAGGCCCTACGGCGTTATGTCCGTGCTGAGAACAAGATCGCTTACATACCATCCGTC  
ATTACCAGCATGTGTTGGCTGTTGACCCAGAAAAGGCGGCCCAGATGAAATCCCAGGTGATGACACATCTCCACG  
TGATTGAAGAAAGGAGGAACCAAAGCCTCTCTGCTCTACAAAGTACCTTATGTAGCCCAAGAAATTCAGAGG  
AAATTGATGAGCTCCTTCAGGAGCAGCGTGCAGATATGGACCAGTTCAGTGCCTCAATCTCAGAGACCCCTGTGG  
ACGTCGGGTGAGCTCTGAGGAGAGTGAGGAGATCCACCGTTCCACCCCTTCCACCCCTTCCAGCCCTACCTG  
AGAACGAAGACACTCAGCCGAGTTGTACCACCAATGAAAAAAGGATCTGGAGTGGGAGAGCAGGATGGGGGAC  
TGATCGGTGCCGAAGAGAAAGTGATTAACAGTAAGAATAAAGTGGATGAAAACATGGTCATTGACGAGACTCTGG  
ATGTTAAGGAAATGATTTTCAATGCCGAGAGAGTTGGAGGCCCTCGAGGAAGAGCGGGAATCCGTGGGCCCACTGC  
GGGAGGACTTCAGTCTGAGTAGCAGTGCTCTCATTGGCCTGCTGGTCATCGCAGTGGCCATTGCCACGGTCATCG  
TCATCAGCCTGGTGATGCTGAGGAAGAGGCAGTATGGCACCATCAGCCACGGGATCGTGGAGGTTGATCCAATGC  
TCACCCCAAGAGCGTCACCTGAACAAGATGCAGAACCATGGCTATGAGAACCCACCTACAAATACCTGGAGC  
AGATGCAGATTTAGGTGGCAGGGAGCGCGGCAGCCCTGGCGGAGGGATGCAGGTGGGCCGGAAGATCCCACGATT  
CCGATCGACTGCCAAGCAGCAGCGCTGCCAGGGGCTGCGTCTGACATCCTGACCTCTGGACTGTAGGACTATA  
TAAAGTACTACTGTAGAACTGCAATTTCCATTCTTTTAAATGGGTGAAAAATGGTAATATAACAATATATGATAT  
ATAAACCTTAAATGAAAAAATGATCTATTGCAGATATTTGATGTAGTTTTCTTTTAAATTAATCAGAAACCC  
CACTTCCATTGTATTGTCTGACACATGCTCTCAATATATAATAAATGGGAAATGTCGATTTTCAATAATAGACTT  
ATATGCAGGCTGTCGTTCCGGTTATGTTGTGTAAGTCAACTCTTCAGCCTCATTCACTGTCTGGCTTTTATTTA  
AAGAAAAAAGGCAGTATTCCCTTTTAAATGAGCTTTCAGGAAGTTGCTGAGAAATGGGGTGAATAGGGAAC  
TGTAATGGCCACTGAAGCACGTGAGAGACCTCGCAAAATGATGTGAAAGGACCAGTTTCTTGAAGTCCAGTGTT  
TCCACGGCTGGATACCTGTGTGTCTCCATAAAAGTCCTGTCCACCAAGGACGTTAAAGGCATTTTATTCAGCGTC  
TTCTAGAGAGCTTAGTGATACAGATGAGGGTGTCCGCTGCTGCTTTCCTTCGGAATCCAGTGCTTCCACAGAGA  
TTAGCCTGTAGCTTATATTTGACATTCTTCACTGTCTGTTGTTTACCTACCGTAGCTTTTACCGTTCACTTCCC  
CTTCCAATAITGCCAGATGTGACGGCTCCTCCTCTCTGGACTTTCTCCAAAGGCAGTACCCCTCGGCCCTACT  
TTGTCCCCTCACCTCCACCCCTCCTGTACCCGGCTTGTGACATTCAGTCAAGAGACACACCAAGGAGGCG  
GCCGCTGGCCCAGGAGAGAAACACGGGGAGGTTTGTGTTGTGAAAGGAAAGTAGTCCAGGCTGTCCCTGAAACTG  
AGTCTGTGGACACTGTGGAAGCTTTGAACAATTGTGTTTTCGTCACAGGAGTCTTTGTAATGCTTGTACAGTTG  
ATGTCGATGCTCACTGCTTCTGCTTTTTCTTTCTTTTATTTTAAATCTGAAGGTTCTGGTAACCTGTGGTGTAT  
TTTTATTTTCTGTGACTGTTTTGTTTTGTTTTTCTTTTTCTCCCTTTGACCCCTATTCAATGTCTCTACC  
CACTATGCACAGATTAAACCTTCACTACAACTCCTTAATATGATCTGTGGAGAATGTACACAGTTTAAACACAT  
CAATAAATACTTTAACTTCCA



3690/6881  
**FIGURE 3402**

MAATGTAAAAATGRLLLLLVGLTAPALALAGYIEALANAGTGFAVAEPQIAMFCGKLNMHVNIQTGKWEPT  
GTKSCFETKEEVLQYQCQEMYPELQITNVMEANQSVSIDNWCRRDKKQCKSRFVTPFKCLVGEFVSDVLLVPEKQ  
FFHKERMEVCENHQHWHTVVKEACLTQGMTLYSYGMLLPCGVDQFHGTEYVCCPQTKIIGSVSKEEEEEDEEEEE  
EEDEEEDYDVYKSEFPTEADLEDFTEAAVDEDEDEEEGEEVVEDRDYYYDTFKGDDYNEENPTEPGSDGTMDSK  
EITHDVKAVCSQEAMTGPCRAVMRWYFDLSKGKCVRFYGGCGGNRNNEFESEDYCMVCKAMIPPTPLPTNDVD  
VYFETSADDNEHARFQKAKEQLEIRHRNRMDRVKKEWEEAELQAKNLPKAERQTLIQHFQAMVKALEKEAASEKQ  
QLVETHLARVEAMLNDRRRMALENYLAALQSDPPRPHRILQALRRYVRAENKDRLHTIRHYQHVLAVDPEKAAQM  
KSQVMTHLHVIEERRNQSLSLLYKVPYVAQEIQEEIDELLQEQRADMDQFTASISPTVDVRSSESEEEIPPFH  
PFHPPALPENEDTQPELYHPMKKSGVGEQDGGGLIGAEKVINSKNKVDENMVIDETLDVKEMIFNAERVGGLE  
EERESVGPLREDFSLSSSALIGLLVIAVAIATVIVISLVMLRKRQYGTISHGIVEVDPMLTPEERHLNKMQNHY  
ENPTYKYLEQMCI

3691/6881  
**FIGURE 3403**

CTTTCACAAAAGGTGAAATGAGCTCTTTGTAGTGTTCCTCCGCCAGGCTGCATTTTAGAATCACAGAGGAGGGTG  
GCCCCGAGGCAGCCGGGATGACAGCTCTCCCCAGGAATCCTGCTGCCTGCTGAGAAACATGGTCAGCAAGTCCCGC  
TGGAAGCTCCTGGCCATGTTGGCTCTGGTCCTGGTCGTCATGGTGTGGTATTCCATCTCCCGGGAAGACAGGTAC  
ATCGAGCTTTTTTATTTTCCCATCCCAGAGAAGAAGGAGCCGTGCCTCCAGGGTGAGGCAGAGAGCAAGGCCTCT  
AAGCTCTTTGGCAACTACTCCCGGGATCAGCCCATCTTCTGCGGCTTGAGGATTATTTCTGGGTCAAGACGCCA  
TCTGCTTACGAGCTGCCCTATGGGACCAAGGGGAGTGAGGATCTGCTCCTCCGGGTGCTAGCCATCACCAGCTCC  
TCCATCCCCAAGAACATCCAGAGATTGAACAATGCCCCAGTGGCTGGCTATGAGGGTGACGTGGGCTCCAAGACC  
ACCATGCGTCTCTTCTACCCCTGAATCTGCCCACTTCGACCCCAAAGTAGAAAACAACCCAGACACACTCCTCGTC  
CTGGTAGCTTTCAAGGCAATGGACTTCCACTGGATTGAGACCATCCTGAGTGATAAGAAGCGGGTGCGAAAGGGT  
TTCTGGAAACAGCCTCCCCCTCATCTGGGATGTCAATCCTAAACAGATTTCGGATTCTCAACCCCTTCTTCATGGAG  
ATTGCAGCTGACAACTGCTGAGCCTGCCAATGCAACAGCCACGGAAGATTAAGCAGGATGCGGAATTTGGTCAG  
AGCCGTTTCATGTGAGAGCTCAGCAGAATGGCAGCTGAACCCCTGGGAGAGCACTGCCTGTTCTGAGAAAGGCCTGC  
AATTGTGTCTTCACGATGCTTTTCCAAGACAGCCAAGGCAGGTATAATTTTCTCAGCAAGAAAGAGGAACCTCG  
GAGGTGTGCACCGCCTGGCTGGCCACCCAGGTATTGGCAAAAGTGACTGTTGGGCTGCTGGCCCCGGCCCCGCCC  
GCCGTCCCTGGAGCACTCACGATGCGGTCCGGCGGCGGCGTGCTCCGGATGAAGCACTTGATCTGGCCCTTCTCG  
CCGTGGAGGGCGTGCTGGGTCTGGGTGCTGGAGATGATGGGGGTCCTGTTGAGAAACAGCGTCCCATTAGGCAC  
CCGGGAAGGGCACGTCCCTGCTGGCGCCCTCTTGGGTGGGTTCAGAAGTGTATTCTTAATCCAAGCATTACAGCA  
AACATTTGCCGAAGGCCTGTATGTGCAAGGTAAAGTGCAAGGTAGAGGACTCAGAGATAAATTAGGCATTACAGTC  
ATAAACCTCTCAAGGGATCATGAGCGAATGCTTCTAAGTCAGAACCCCCAGAAGATACAAATAACTGTAATAAAA  
GGTGGTGAGTGTTAGTACCACAGGAGCGGTGCAGATAAAGTGCTAACCGACTTC

3692/6881

**FIGURE 3404**

GGAGAAAGGAGAGAAAGGAAAGCGCGAGGAGCCGCCGCCACCACCAGCGCAGCAGTCCTGGAGCTGTGAGGAGAT  
TCGGGCCGTCACCCCTGCCTCCCCTGCGTCCCGCCACCGGCCGCTTCTGTCTCGGACCCATTCCAACAATCTCGT  
AAAA**CAT**GGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTCACCCGAGGATATTAAAAAGGCATATC  
GGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGAAGAAGCAGAGAGAAAATTCAAGCAAG  
TAGCGGAGGCATATGAAGTGCTGTCGGATGCTAAGAAACAGGACATCTATGACAAATATGGCAAAGAAGGATTAA  
ATGGTGGAGGAGGAGGTGGAAGTCATTTTGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCCAGATGATG  
TCTTCAGGGAATTTTTTGGTGAAGGGACCCATTTTCATTTGACTTCTTTGAAGACCCTTTTGAGGACTTCTTTG  
GGAATCGAAGGGGTCCCCGAGGAAGCAGAAGCCGAGGGACGGGGTCGTTTTTCTCCGTGTTCACTGGATTTCGGT  
CTTTTAGAAGTGATTTTCTTCTTTTGATACAGGATTTACTTCATTTGGGTCAGTGGTACAGGGGGCCTCACTT  
CATTCTCTTCCACGTCATTTGGTGGTAGTGGCATGGGCAACTTCAAATAGATATCAACTTCAACTAAAATGGTTA  
ATGGCAGAAAAATCACTACAAAGAGAATTGTGAGAACGGTCAAGAAAGAGTAGAAGTTGAAGAAGATGGCCAGT  
TAAAGTCCTTAACAATAAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAG**TA**ATTCAACGCACGCACCTTAAC  
AGAAATGTTAACTATAACAAGCACCATTTGAGGATTAACAGGAACATTTTTTTGAAGATTTCAAACGAACCTCGA  
CTTTCAGTATAATTGTACCTAAAGTATTTATAAACAGCTCATCGGAGCCTCTATTTGTCATAGACTTTTGAGTTG  
ATTGTTGGGACCACATAATAGGACCATTTTTTTTTTGTCTTTAAATTTGTTGTAATCTCTGTATGCACCTTTGCT  
TTTTTATTAAACGTACTCCAAGGTGAGTCTTGACTCTTTAGTGTAGGACAAGATTGTACACTAACACCAGCATGG  
ACCTGCTTTTCATTGTGCTGAAATGTGAGCCACGTAGTGTCGGCCTGCTGTGAAGTTAACATTGCCAGGACGAT  
TCTTCTACAGAAATAATTTCAAATTTTTTCAGCATTTAGTAGTGAAAGATATTAATACATTAAATGGAATACATT  
TCTGGTTTAATATAAATTAAGGATGTTTTCTAGTTGTGCATGAATGCTGGCAACTTAGTAAGTTTGACAATTGT  
TTAAATATGTAATGTTAAGCTTAGGTTAAAAAAGTAAAGCTGGTAACTGGGTCTTTGTCATTTGCTTTAAAAA  
AAAAAAAAGAAAATAAATGCGAATGTGTTGGTGCATT

3693/6881  
**FIGURE 3405**

MVDYYEVLGVQRHASPEDIKKAYRKLALKWHPDKNPENKEEAERKFKQVAEAYEVLSDAKKQDIYDKYGKEGLNG  
GGGGGSHFDSPFEGFTFRNPDDVFREFFGGGRDFFSFDFEFDFGNNRRGPRGSRSGTGSFFSVFSGFPSPF  
RSGFSSFDTGFTSFGSLGHGGLTSFSSTSFGGSGMGNFKRISTSTKMVNGRKITTKRIVENGQERVEVEEDGQLK  
SLTINGKEQLLRDKN

3694/6881  
**FIGURE 3406**

CAGCAGTCCTGGAGCTGTGAGGAGATTGGGGCCGTCACCCTGCCTCCCCCTGCGTCCCGCCACCGGCCGCTTCTGT  
CCTCGGACCCATTCCAACAATCTCGTAAAACATGGTGGATTACTATGAAGTTCTAGGCGTGCAGAGACATGCCTC  
ACCCGAGGATATTAAAAAGGCATATCGGAAACTGGCACTGAAGTGGCATCCAGATAAAAAATCCTGAGAATAAAGA  
AGAAGCAGAGAGGGACATCTATGACAAATATGGCAAAGAAGGATTAAATGGTGGAGGAGGAGGTGGAAGTCATT  
TGACAGTCCATTTGAATTTGGCTTCACATTCCGTAACCCAGATGATGTCTTCAGGGAATTTTTTGGTGAAGGGA  
CCCATTTTCATTTGACTTCTTTGAAGACCCTTTTGAGGACTTCTTTGGGAATCGAAGGGGTCCCCGAGGAAGCAG  
AAGCCGAGGGACGGGGTCGTTTTTCTCCGTGTTTCAGTGGATTTCGTCCTTTAGAAGTGGATTTCTTCTTTGA  
TACAGGATTTACTTCATTTGGGTCACTAGGTACAGGGGGCCTCACTTCATTCTCTTCCACGTCATTTGGTGGTAG  
TGGCATGGGCAACTTCAAATAGATATCAACTTCAACTAAAATGGTTAATGGCAGAGAAGATGGCCAGTTAAAGTC  
CTTAACAATAAATGGTAAGGAGCAGCTGCTGCGCTTGGATAACAAGTAATTCAACGCACGC

3695/6881  
**FIGURE 3407**

CTTGTAAGATGGCGGCGCCAGGTGGAGCGCTCGGGCCCTGGATCCGGGGAAACGGCCAAGGTTGCGGGAGTC  
TCTTCACTCTCGTCTCAAAGCCATTTGTGCCGCTGCCGCTGCCTCTACGGCCATAAATGCCAGAGATTAGCGG  
AGAAGCTCCGAGCCAGAAACGGGAACAAGACACAAAGAAGGAGCCGGTGTCCACAAACGCTGTTACGCGGAGAG  
TGCAAGAAATAGTGGGTTACACGGCAGCTGCAGCGAGTCCACCCCAACGTGCTTGCTAAGGCACTGACCCGAG  
GAATTCTCCACCAGGACAAGAACCTTGTGGTCATCAATAAGCCCTACGGTCTCCCTGTGCATGGTGGCCCTGGGG  
TCCAGCTCTGCATCACTGATGTACTACCTATCCTGGCAAAGATGCTTCATGGCCACAAGGCAGAGCCCTTGATC  
TGTGCCACCGGCTGGACAAGGAAACCACAGGTGTAATGGTGTGGCTGGGACAAGGACATGGCACATCAAGTCC  
AAGAGTTGTTTAGAACCCGTCAGGTGGTGAAGAAGTACTGGGCCATCACTGTGCATGTCCCATGCCCTCAGCAG  
GAGTCGTGGACATCCCCATTGTGGAGAAGGAGGCGCAAGGCCAGCAGCAACACCACAAGATGACATTGTCCCGA  
GCTACCGCATGGACGATGGGAAAATGGTGAAAGTGGCGCGAGCCGGAATGCGCAAGTTGCTGTAAGTCACTAGC  
AGGTGCTCAGCAGCACTCTCTCTCCGCCCTCGTGGAGCTCCAGCCCATCACTGGAATAAAACATCAGCTTCGAG  
TTCCTTGTCTTTTGGATTGGATTGTCCAATCCTTGGTGATCACAAAGTACTCAGACTGGAATAGGTTGGCCCCC  
AGAAGCTGTCTGTGGGCACCTGAAGAAGCTGGGGCTAGAACAGTGAAGGCCGCTACATCCCCCTTCACCTGC  
ACGCCCCGAGCTGATCCTGCCTGCCCTGGGGTCCGGGAAGGAGGAACTCAACTTGGTCTGCAAACCTTCCTCGCT  
TCTTTGTGATTCCCTGCACCGCCTGCGTTTAGAGATGCCAAATGAGGATCAAATGAGAACAATGAAGCCAAGT  
GTCTGGGAGCACAGTGAAGACCATGGGAGCACCTGGCACCTGGGAGCACAGTGAAGACCCTGAGAGCATCCTGG  
CACCTGGGAGCGCAGGTTGGCCCTGAAGTGTCTTTGTTTACAGGACTCTGCTAACTTCTCACTTGGAAACAGAC  
TGCGTAAGAGCCAGGTGGGATAAGGTAAAGCAACTCAGCTGTACAGGGCTTTTAATGGAGAACAAAGTCTATTT  
ACTGATAGTTTGGCTGCACTGTGGAAGCCTGCTGGAAGTCTCCCTGCCGTGGGCTCTCATTGCCAATATGGAA  
CAGAGCCCAGGGCCAGGCAGACTGGGGCAGTACTGGAAAAGGAAAATAAAGGTGAGAATCCGGGATCAGGAAC  
TGTTTTTATCCAGCAGTGAAGCTCTTGAGCTCTTAGGAAGGTTCCCGTGGTTGGAAAGAACATAATGGTTAACAA  
ATATCACAGCATCCAGGGATTGCCAGCTATAGTGTGGGTGCCCTACTGAACTCTGATTAGGGAACCTGTATAAG  
GGTATTGAGTGTGAGGTTGAGGTGGGACATTTGCTGAGCAAGGAGAACCAGTGTGAATGGCAGGCAGATAACATG  
CACACATGAAGCTGGCTGGGTGTAAGGCAGTAGCGGGGAGCGCATGCTGTCTAACAGCTGTTAGCTCCAGCTGG  
TTGTTGCCATGTGGGAATGATTTTCTCATTCTTCAGAGAAGCTGGAAACCTAGATATTTATGTGAAACCTCCC  
AGTGTATTGCCAACTAAATCAAATTTTTAAAGATGCTTAGGCACCTAAGCAAATAATACTTAGAGGTTGAATTTG  
GTCTACAGGCTAGCAGTTTGCAGTCTATGTTTAATGAATGGTATAGAAGTTTGGGGAAAGGTGCCATCTTGAAA  
TTCTGGATCAGTGGTTGGCATTTTCGCTGCGTGTAGTATGATCCTTTCTAGGCTTGGAGATGGCTTTGGTTGGT  
CCGTGAATGTAGTTATGAGAGTGCTGCCATTAATAAATCAAAAATC

3696/6881  
**FIGURE 3408**

MAAPRWSASGPWIRNGQGCGSLFTLVSKPFCAAAAASTAINAQRLAEKLRQKREQDTKKEPVSTNAVQRRVQE  
IVRFTRQLQRVHPNVLAKALTRGILHQDKNLVVINKPYGLPVHGGPGVQLCITDVLPIAKMLHGKAEPLHLCH  
RLDKETTGVMLAWDKDMAHQVQELFRTRQVVKKYWAITVHVPMPSAGVVDIPIVEKEAQGGQQHHKMTLSPSYR  
MDDGKMVKVRRSRNAQVAVTQYQVLSSTLSSALVELQPIGTGIKHQLRVHLSFGLDCPILGDHKYSDWNRLAPQKL  
SVGTLKKLGLEQSKARYIPLHLHARQLILPALGSGKEELNLVCKLPRFFVHSLHRLRLEMPNEDQNENNEAKCLG  
AQ

3697/6881  
**FIGURE 3409**

CAGATAGAAACCAAATTCTATGAGGAAGTTCACGATCTTGAAAGGAATATGCTGTTCTCTATCAGCCTCTATTTG  
ATAAGCGATTTGAGATTATTAATGAAATTTATGAACCCACAGAAGAACAATGTGAATGGTAACCAGATAAAGAAG  
ATGAGATTTGAGAGGAGTTGAAAGAAAAGGCCAAGATCGAAGATGAGAAAAAGGATGAAGAAAAAGAAGACCCCA  
AAGAAATTCCTGAATTTTGGTTAACTGTTTCTAAGAATGTTGACTTGTTTCAGTGATATGTTCAACAACATGATG  
AACCTATTCTGAAACACTTGAAAGATACTAAAGTGAAGCTCTCAGATGCTGACCAGCCTATGAATTTTGTCTTAG  
AATTTCACTTTGAACCCAATGAATATTTTACAAATGAAATGCTGTCAAAGACATACAGGATGAGGTCAGAACCAG  
ATGATTCTGATCCCTTTTCTTTTGATGGACCAGAAATTATGGGTTGCACAGGGTGCCAGATAGATTGGAAAAAAG  
GAAAGAATGTCACTTTGAAAACCATTAAGAAGAAGCAGAAACACAAGGGAAGTGGGACAGTTCATACTGTGACTG  
AGAGTGGAGATCTGGATGATGATGCTGAAATCCTTGACAGACTTCAAAAATAGTCACTTTTTACGTGAGCGTAT  
AATCCAAGAGCAGTGTCACTTTTACTGGAGAAGCTATTGAAGTTGATGATGATGTTTATGATGAAGAAGGTGA  
AGAAGCGGATGAGGTAATGTTTACCAAATGAGCAAATAATTCTCTGTGTTTAAACACATTGAGAAGCAAATTGAAT  
GACTTATGTATTCCCTTTGCTATAATCATTCTGCAATTTGGGTTAAAAACATTTTGGAAAATATGATTTTAGAATT  
CTACAGCCAAACAGTGTATGTGTAAAGTTTCAATAAATAAA



3698/6881

**FIGURE 3410**

MVQQHDEPILKHLKDTKVKLSADQPMNFVLEFHFEPNEYFTNEMLSITYMRSEPDDSDPFSFDGPEIMGCTGC  
QIDWKKGKNVTLKTIKKKQKHKGSGTVHTVTESGDLDDDAEILAQTSK

3699/6881  
**FIGURE 3411**

GGGGCCAGTCGTTCCGCCGAAAGCATTGTCTCCACCTCATCATAACAACAATTAATTTCTCTGSGGCCTGAG  
GAGGGCAGAATTTCAACCTTCGGTGTGCTTGGGAGTGGCGATTGTGATTTACACGACAAAATGCCGAGGTGCTCG  
GTGGAGTCATGGCAGTGCCCTTTGTGGAAGACTGGGACTTGGTGCAAACCCTGGGAGAAGGTGCCTATGGAGAAG  
TTCAACTTGCTGTGAATAGAGTAAGTGAAGAAGCAGTCGCAGTGAAGATTGTAGATATGAAGCGTGCCGTAGACT  
GTCCAGAAAATATTAAGAAAGAGATCTGTATCAATAAAATGCTAAATCATGAAAATGTAGTAAAATTTCTATGGTC  
ACAGGAGAGAAGGCAATATCCAATATTTATTTCTGGAGTACTGTAGTGGAGGAGAGCTTTTTGACAGAATAGAGC  
CAGACATAGGCATGCCTGAACCAGATGCTCAGAGATTCTTCCATCAACTCATGGCAGGGGTGGTTTATCTGCATG  
GTATTGGAATAACTCACAGGGATATTAAACCAGAAAATCTTCTGTTGGATGAAAGGGATAACCTCAAAATCTCAG  
ACTTTGGCTTGGCAACAGTATTTCCGTATAATAATCGTGAGCGTTTGTGGAACAAGATGTGTGGTACTTTACCAT  
ATGTTGCTCCAGAACTTCTGAAGAGAAGAGAATTTTCATGCAGAAACCAGTTGATGTTTGGTCTGTGGAATAGTAC  
TTACTGCAATGCTCGCTGGAGAATTGCCATGGGACCAACCCAGTGACAGCTGTCAGGAGTATTCTGACTGGAAG  
AAAAAAAACATACCTCAACCCTTGGAAAAAATCGATTCTGCTCCTCTAGCTCTGCTGCATAAAATCTTAGTTG  
AGAATCCATCAGCAAGAATTACCATTCCAGACATCAAAAAAGATAGATGGTACAACAAACCCCTCAAGAAAGGGG  
CAAAAAGGCCCGAGTCACCTCAGGTGGTGTGTCAGAGTCTCCAGTGGATTTTCTAAGCACATTCAATCCAATT  
TGGACTTCTCTCCAGTAAACAGTGCTTCTAGTGAAGAAAATGTGAAGTACTCCAGTTCTCAGCCAGAACCCCGCA  
CAGGTCTTTCCTTATGGGATACCAGCCCTCATAATTGATAAATGGTACAAGGGATCAGCTTTTCCCAGCCCA  
CATGTCCTGATCATATGCTTTTGAATAGTCAGTTACTTGGCACCCAGGATCCTCACAGAACCCCTGGCAGCGGT  
TGGTCAAAAGAATGACACGATTCTTTACCAAATTGGATGCAGACAAATCTTATCAATGCCTGAAAGAGACTTGTG  
AGAAGTTGGGCTATCAATGGAAGAAAAGTTGTATGAATCAGGTACTATATCAACAAGTATAGGAGAAACAATA  
AACTCATTTTCAAAGTGAATTTGTTAGAAATGGATGATAAAATATTGGTTGACTTCCGGCTTTCTAAGGGTGATG  
GATTGGAGTTCAAGAGACACTTCTGAAGATTAAAGGGAAGCTGATTGATATTGTGAGCAGCCAGAAGGTTTGGC  
TTCCTGCCACATGATCGGACCATCGGCTCTGGGGAATCCTGGTGAATATAGTGCTGCTATGTTGACATTATTCTT  
CCTAGAGAAGATTATCCTGTCTGCAAACCTGCAAATAGTAGTTCTGAAAGTGTTCACTTCCCTGTTTATCCAAAC  
ATCTTCCAATTTATTTTGTGTTGTTCCGCATACAAATAATACCTATATCTTAATTGTAAGCAAAACCTTGGGGAAA  
GGATGAATAGAATTCATTTGATTATTTCTTCATGTGTGTTTAGTATCTGAATTTGAAACTCATCTGGTGGAAACC  
AAGTTTCAGGGGACATGAGTTTCCAGCTTTTATACACACGTATCTCATTTTTATCAAAACATTTTGTTTAATTC  
AAAAAGTACATATTTCTTCCATGTTGATTTAATTCTAAGATGAACCAATAAAGACATAATTTCTTGCAAAAAAAA  
AAAAAAAAAAAAAAAAA

3700/6881  
**FIGURE 3412**

MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEAVAVKIVDMKRAVDCPENIKKEICINKMLNHENVVKFYGHRR  
EGNIQYLFLEYCSGGELFDRIEPDIGMPEPDAQRFFHQLMAGVVYLHGIGITHRDIKPENLLDERDNLKISDFG  
LATVFRYNNRERLLNKMCGILPYVAPELLKRREFHAEPVDVWSCGIVLTAMLAGELPWDQPSDSCQEYSDWKEKK  
TYLNPWKKIDSAPLALLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTSGGVSESPSGFSKHIQSNLDF  
SPVNSASSEENVKYSSSQPEPRTGLSLWDTSPSYIDKLVQGISFSQPTCPDHMLLNSQLLGTGSSQNPWQRLVK  
RMTRFFTKLDADKSYQCLKETCEKLGQWKKSCMNQVTISTDRRNNKLIFKVNLEMDDKILVDFRLSKGDGLE  
FKRHFLKIKGKLIDIVSSQKVWLPAT

3701/6881  
**FIGURE 3413**

CTGGCCTGCGGTGGGCTAGGGGCAGGGCCGGAGCCGCGGCGGCGGAGCTGTGGATCCTTCATGATGAGAGATTG  
GGGACACTTCTCTCTCTCTGTGTGTAGTTGATAGTTTGGTGGTGAAGAGATGGCTGACAGTGTCAAACCTTTCTC  
CAGGACCTTGCCAGAGGAATCAAAGACTCCATCTGGGGTATTTGTACCATCTCAAAGCTAGATGCTCGAATCCAG  
CAAAGAGAGAGAGGAGCAGCGTCTGAAGAAGGGCAAGTAGTGTCTTGGCACAGAGAAGAGCCCAGAGTATAGAGCGG  
AAGCAAGAGAGTGAAGCAGTATTGTTAGTAGAATTTTCCAGTGTGTGCTTGAATGGTGGAGTGTCTGGTTC  
AGTCTCCTCTTGTGTTTTATCGAGTATTTATTCCTGTGCTTCAGTCGGTAACAGCCCGAATTATCGGTGACCCATCA  
CTACATGGAGATGTTTGGTCGTGGCTGGAATCTTCCCTCAGTCAATTTTCAGTGTCTTTGGGTGCTCCCCTTG  
TTTGTGCTTAGCAAAGTGGTGAATGCCATTGGTTTTAGGATATAGCTGACCTGGCATTGAGGTATCAGGGAGG  
AAGCCTCACCCATTCCCTAGTGTGAGCAAAATAATTGCTGACATGCTCTTCAACCTTTTGTGTCAGGCTCTTTTC  
CTCATTGAGGAATGTTTGTGAGTCTCTTCCCATCCATCTTGTGCGTCAGCTGGTTAGTCTCCTGCATATGTCC  
CTTCTCTACTCACTGTACTGCTTTGAATATCGTTGGTTCAATAAAGGAATTGAAATGCACCAGCGGTTGTCTAAC  
ATAGAAAGGAATTGGCCTTACTACTTTGGGTTTGGTTTGGCCTTGGCTTTTCTCACAGCAATGCAGTCTCTCATAT  
ATTATCAGTGGCTGCCTTTTCTCTATCCTCTTTCTTTTATTCAATTATCAGCGCCAATGAAGCAAAGACCCTGGCA  
AAGCATATCTCTTCCAGTTGCGCCTCTTCTCCTTGGTGGTCTTCTTAAGCAACAGACTCTTCCACAAGACAGTCT  
ACCTGCAGTCGGCCCTGAGCAGCTCTACTTCTGCAGAGAAGTTCCCTTCACCGCATCCGTGCGCTGCCAAACTGA  
AGGCTACTGCAGGTCACTGAGTTGCCTGCCATCCAAAGGGGATGGGCGGGATTGGAAGAAGCTGTGGCAGCTCTT  
TTCCCTGTTACCTCCCGCTGCCAGGGAAGGCAGGACCCGCTCTGCCAAGGGCCCTCTGCGTATTCCCTTCTCT  
CTGAGGAATTGAAATTTTGTCTCTGGTGCACGTAAGGCAGAATGTTCCCTGACACCAGTGTGTGGATTTTTAAC  
ATCACCGTGAGTCTGAAAGGACCACAGGTTTTTCTGCAGCTATTTTCTAGCATTTGCCAGTCCCTGTGCCTGGAC  
TGATTGGAACACTTTGTTTTTCTCCCTGTGCCATTTACCTTCCACCTTTCCATCCTGCCTTCTACCACCCTTGG  
ATGAATGGATTTTGTAAATCTAGCTGTTGTATTTTGTGAATTTGTTAATTTTGTGTTTTTCTGTGAAACACATA  
CATTGGATATGGGAGGTAAAGGAGTGTCCAGTTGCTCCTGGTCACTCCCTTTATAGCCATTACTGTCTTGTTC  
TTGTAACTCAGGTTAGGTTTTTGGTCTCTCTTGCTCCACTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG  
CCTGAAGAGATGAGATAGGAGGAAAGACCTCACAGCCAGATCTGCTGGGTTTTGAGGAGTGATTTTCTTTCTTCC  
CCTGAAGGGGAAAAAGCTATTTTCATTGGTACATTTAAAGTCCCCCAACTATGGGGAGGTACCAATTCTGGACA  
AGTGCCACTACAACAACACTAAACCTGAACTTTTCAACTCCGTTGGTGGTGGGAGGCAGCGGGCAGAAATTTACT  
GTTGGCCACTGCCAGGTCTATTTTCATATTTCAAAGGAATATTGGGTGCTGCATATAGGAACTGAAGGGGTCAATG  
TATTAACCTGTGATTGGTTGTTTTCTGTGATTTTGAGAGACTAAATGTGGGGGCAGATGTCAAATACCTGT  
ACAATTTTAAATGTACAAATTAACATGAGCTGGTTTTCCCA

3702/6881  
**FIGURE 3414**

CTGCAGCTCTTGGGTTTTTTTGTGGCTTCCTTCGTTATTGGAGCCAGGCCTACACCCCAGCAACCATGTCCAAGGG  
ACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGGTGTTTTCCAGCACGGAAAAGTCGAGATAAT  
TGCCAATGATCAGGGAAACCGAACCCTCCAAGCTATGTCGCCCTTACGGACACTGAACGGTTGATCGGTGATGC  
CGCAAAGAATCAAGTTGCAATGAACCCCAACACAGTTTTTGTATGCCAAACGTCGTATTGGACGCAGATTGA  
TGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAATGATGCTGGCAGGCCCAAGGTCCA  
AGTAGAATACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGCTTCTATGTTCTGACAAAGATGAAGGA  
AATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGTGCCAGCTTACTTTAATGACTCTCA  
GCGTCAGGCTACCAAAGATGCTGGAATATTGCTGGTCTCAATGTACTTAGAATTATTAATGAGCCAACTGCTGC  
TGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAGAAACGTGCTCATCTTTGACCTGGGAGGTGGCAC  
TTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTCTACAGCTGGAGACACCCACTTGGG  
TGGAGAAGATTTTGACAACCGAATGGTCAACCATTTTATTGCTGAGTTTAAGCGCAAGCATAAGAAGGACATCAG  
TGAGAACAAGAGAGCTGTAAGACGCCTCCGTACTGCTGTGTAACGTGCTAAGCGTACCCTCTCTTCCAGCACCCA  
GGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTCCATTACCCGTGCCCGATTTGAAGA  
ACTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCCCTTCGAGATGCCAAACTAGACAAGTC  
ACAGATTGATGATATTGTCCTGGTTGGTGGTTCTACTCGTATCCCCAAGATTGAGAAGCTTCTCCAAGACTTCTT  
CAATGGAAAAGAACTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTATGGTGCAGCTGTCCAGGCAGCCAT  
CTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGTCACCTCTTTCCCTTGGTATTGA  
AACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTCCTACCAAGCAGACACAGACCTTCAC  
TACCTATTCTGACAACCAAGCCTGGTGTGCTTATTAGGTTTATGAAGGCGAGCGTGCCATGACAAAGGATAACAA  
CCTGCTTGGCAAGTTTGAACCTCACAGGCATACCTCTGCACCCCGAGGTGTTCTCAGATTGAAGTCACTTTTGA  
CATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGGAAAAGAGAACAAGATTACTATCAC  
TAATGACAAGGGCCGTTTGGAGCAAGGAAGACATTGAACGTATGGTCCAGGAAGCTGAGAAGTACAAAGCTGAAGA  
TGAGAAGCAGAGGGACAAGGTGTATCCAAGAATTCATTGAGTCCTATGCCTTCAACATGAAAGCAACTGTTGA  
AGATGAGAACTTCAAGGCAAGATTAACGATGAGGACAAACAGAAGATTCTGGACAAGTGTAAATGAAATTATCAA  
CTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACAGAAAGAGCTGGAGAAAGTTTGCAA  
CCCCATCATCACCAAGCTGTACCAGAGTGCAAGGAGCATGCCAGGAGGAATGCCTGGGGGATTTCTGTTGGTGG  
AGCTCCTCCCTCTGGTGGTGGTTCCTCAGGGCCCAACATTGAAGAGGTTGATTAA

3703/6881  
**FIGURE 3415**

GACTGCTAGGCGAGGAGAGGGAAGGGGGCGGAGGAGACAGGGCTACTGCAGGCGCAGAGCTGGGGGCAGCCGGGG  
GCCCCAGTGGCTGAGGCTGGTCCCGCAGCGGCCGCTTGC CGCGTTCTGGCTCCTGTGGCCTCACCAGGAAGCGT  
CAGAGTCCCGACACTGGGGAAGCTCGGAGCGCCGCTCCGCTGCCCGCGCTCCTGCCTGGCTCTGGGTCCCCGA  
GCCCCCTCCCCTGGCCCAGCCGACTCCCTCCTCCTTCCCGAACCATCCGGCTCGGGCTCCTTCCCTGGCGATGG  
CTGGCCGCTGAGCCATGGCTCAGTACGGCCACCCAGTCCGCTCGGCATGGCTGCGAGAGAGGAGCTGTACAGCA  
AAGTCACCCCCCGGAGGAACCGCCAACAGCGCCCCGGCACCATCAAGCATGGATCGGCGCTGGACGTGCTCCTCT  
CCATGGGGTTCCCCAGAGCCCGCGCACAAAAGCCTTGGCATCCACGGGAGGAAGAAGTGTTCAGGCAGCATGTG  
ACTGGTTATTCTCCCATGTGCGTGACCCCTTCTGGATGACCCCTGCCCGGGAGTACGTCTCTACCTCCGTC  
CCACCGGCCCTTAGCACAGAAGCTTTCGACTTTTGGCAGCAGTCGAAGCAGATCTGCGGGAAGAACAAGGCAC  
ACAACATCTTCCCCACATCACACTCTGCCAGTTCTTATGTGCGAGGACAGCAAGGTGGATGCCCTGGGGGAAG  
CCCTGCAGACCACGGTCAGTCGCTGGAATGTAAGTTCTCGGCCCGCTGCCCTGGAGCTCTATACGTCTGTTCA  
ACTTCATCGGCCCTCTTTGTAAAGGAAGACAGTGGGAGGTCTCAAGAAGTTTGTGCTGACTTTGTGTCAGAGG  
CTGCATCCAAAACCGAAGTGCATGTGGAACCTCATAAGAAGCAGCTACATGTGACCCTGGCTTACCCTTCCAAG  
CCAGCCACCTACCCACCTAGAGAACTGGCCAGAACATTGACGTCAAGCTAGGGTGTGACTGGGTGGCTACCA  
TATTTTCTCGGGATATCCGATTGCTAACCATGAGACATTACAGGTCTATACCCCTATACCCACAAAAAGACG  
ATGAGCTGGAGCTGGTCCCCGGGGACTTCATCTTCATGTCTCCAATGGAGCAGACCAGCAGCGAGGGTTGGA  
TCTATGGCACGTCTTAACCACCGGTGCTCTGGACTCTGCCTGAGAATTACATTACCAAGGCTGATGAATGCA  
GCACCTGGATATTTATGGTTCTTATTCAATCTTAAATACATCGTCATCCAACCTCTCTACGTTTGGGGATGGAG  
TATTGGAGAGGCGGCTTATGAGGACCAGGGGCTCGGGGAGACGACTCTTACTATCATCTGCCAGCCCATGC  
AGCCGCTGAGGGTCAACAGCCAGCCCGCCCCCAGAAGCGATGCTTTTGTGTGTGCGCATGGTGAGAGGATGG  
ATGTGTGTTTGGGAAGTACTGGCTGTCCAGTGCTTCGATGCCAAAGGCCGCTACATACGCACCAACCTGAACA  
TGCCCTCATAGTTTACCTCAGCGGAGTGGTGGTTTCCGAGATTACGAGAAAGATGCTCCCATCACTGTGTTTGGAT  
GCATGCAAGCAAGACTAGTGGGTGAAGCCTTATTAGAGAGCAATACCATTATCGATCATGTCTATTGCTCCCCGT  
CCCTTCGCTGCGTTAGACTGCACACAATATCTTGAAGGTTTACAACAGAAAATCACTTGAAGATCCGTGTAG  
AGCCCGGCTTATTTAGTGGACAAAATGGGTGTGCTGGGAGCACATTACCTGCATGGATACCTCCATCAGAGTTAG  
CTGCAGCCAACCTGAGTGTGATACAACTACAGACCTCACATTCCAATCAGCAAATTAGTTGTTTCAAGATCCCT  
ATGATACTTATATCAGTAGAAGTTTCCAAGTAACAAAAGAAATAATAAGTGAATGTAAAAGTAAAGGAAATAACA  
TCCTGATTGTGGCCACGCATCTTCCCTTGAAGCGTGTACCTGCCAATTCAGGGCCTGTACCTCAGAACTCCA  
AGGACTTCGTACAAATGGTCCGAAAGATCCCATATCTGGGATTTTGTTCCTGTGAAGAATTAGGAGAACTGGAA  
TATGGCAGCTGACAGATCCACCAATCCTTCCCTTACCCATGGACCAACTGGGGGCTTCAACTGGAGAGAGCCT  
TGCTTCAAGAATAAACCACACCAGTGAACAAGAAGGAAAGGCCCTTTTGGAGTGTGTCTTCTGTGTGTTTTAAAA  
ACAGTGGGAAAATCCACACCACACTCTAAGTGGACAGCTCAGAATAATTTAGCATATTTCCCTTACACTTAAAG  
TTCTTAAGATGAGACTGTGTAAATGAGAGAAAGACTTGATTGAGAGGAAAAAATGTGTTCTCTCTGGACTCTTG  
CCTAGCTCACAAGGCTTTGGAGAATTGTCTTCTTAAATCGGGGCACCTGTCTACAGAAGAGAATGTTTCGTTCCCT  
CTGGGTATGCACAGCTAAGGGGCCTCATTTCTCCAGAGGGAGCTGCTGGCCCGCTCTAAGGGGTGCAAGAGGAA  
GGAGTGTGCCAGACAGCTGGGGGAGCATTGAAAGGACAGCTTGGGGATGGAATTTTTTTTTTTTATCTCCAT  
TTTCCAGTTAGGTAGAGCCAAGCTGAGGAATCCTTTTAAAGATTATTAGAAAACATGCCCTGAAGAGAGTTGTTCT  
TAGGTTACACATGAAATCCTACCGTCACTAGCCCCCATAACACAGTGTGCTGGCTGAAGATACCCGCTTAAGGA  
TGCTAACATTTACCCCTGGTACTGCCACATTTTCTCTAGAGCAGCTGGCCCTTCTTGCTACAGCCCTATCCCCCT  
CCTTGCTTCTGTGAAATGGGGAGACAAAGCACTTTTGTCTCCAAAGCACTTTTGGATACTCAGGAGGAAAGATA  
AGATACATGTTTGAAGTATTCAATCATAGGAGCAAAGAAGTTGCAAAATATGAAGTGACTTGAATTAACCATGT  
TGTAGCCTAACGTGCTACTGCATTTCTAAATCATCAATATTGCTTGTCTTTGCCCTAGACTCTAGACTATGTT  
AACTAGTTAAGGATGTTACATTTTGAAGGATGTATGTTAGATATATTATTTGCAGCAAGAAGTTCATTCTGTGC  
AATATGGACATGTTTGCAAACCATACCAAGGGTCAGGTTGTTGTACACTTACGTACGTGTCAACCATAATGGAA  
CATCCACAAATGCATCAATTATACCAGGGATGTATAGTAAGTCAGGGAACATAATAAATGATGACAGTCATGGC  
TGCAGTCTACTTGTGCTGTCGTTTTGTTTGTCTTCTATGATAATTTAAATACATAGGTAGGGCTACTGAGGA  
AATTTGGAGAGCCACATTCTGTGGTTTCTCATTATACTTACTTCTGCAATTTAGAGGGAGTTTATTTAAAGAAA  
TAAATGACAAATCAAAACCAAAAAAAAAAAAAAAAAA

3704/6881

**FIGURE 3416**

MAAREELYSKVTPRNRQQRPGTIKHGSALDVLLSMGFPRARAQKALASTGGRSVQAACDWLF SHVGD PFLDDPL  
PREYVLYLRPTGPLAQKLSDFWQQSKQICGKNKAHNIFPHITLCQFFMCEDSKVDALGEALQTTVSRWKCKFSAP  
LPLELYTSSNFIGLVKEDSAEVLKKFAADF AAEAASKTEVHVHVEPHKKQLHVTLAYHFQASHLPTLEKLAQNIDV  
KLGCDWVATIFS RDIRFANHETLQVIYPYTPQNDDELELVPGDFIFMSPMEQTSTSEGWIYGTSLTTGCSGLLPE  
NYITKADECSTWIFHGSYSILNTSSNSLTFGDGVLERRPYEDQGLGETTPLTIICQPMQPLRVNSQPGPQKRCL  
FVCRHGERMDVVFGKYWLSQCFDAKGRI RTNLNMPHSLPQRSGGFRDYEKDAPITVFGCMQARLVGEALLESNT  
IIDHVYCSPLRCVQTAHNILKGLQQENHLKIRVEPGLEWTKWVAGSTLPAWIPPSELAAANLSVDTTYRPHIP  
ISKLVVSESYDTYISRSFQVTKEI ISECKSKGNNILIVAHASSLEACTCQLQGLSPQNSKDFVQMVRKIPYLGFC  
SCEELGETGIWQLTDPPILPLTHGPTGGFNWRETL LQE

3705/6881  
**FIGURE 3417**

GAAGGCACCCCATTCACCCCTGTGCCTTCCTTGCGGGCAGAGAGGGAGAGAAGGGCTCCCCAGATCTACACCC  
CTCCCTCCTGCATCTCCCTGGAGTGTTCACTTGCAAGCTGCCAAAACATGATGGCCTCTGGTTGTTCTGTTGAA  
CTCCTTGAACGTTTAGACCCTGCACACATCTGGAAGGAGCTGGCCCCTCAGTCCCTTCCTACTCCCCAACAAGGG  
GCTCACTATCCCCAAAGAAGGAGCTGTTGGGGACCCACGACGCAGCCCCCTGTACTGGATTACAGCATATTCTCAT  
CTCTGGCCCCGAGGCTGCCTGTGGGGCGAGTGGAGACCTCCCATCACTG



3706/6881  
**FIGURE 3418**

ATGTGCAGCCCAGTGCCAGGTACACAGGGCTACAGAGATGTCATTATTGAGCACCTTCTGCATACAAAGCACCAT  
GCTGGGCATAAGGTGGACGCAAAGAGGGGCCAGGTTTCAGCCTACAAAGACCCTGCGGGTCCGCGTGCGGCTGCCG  
GACGGCCAGGTGACCGAGGAGAGCCTGCAGGCGGACAGCGACGCGGACAGCATCAGCCTCGAGCTGCGCAAGCCC  
GACGGCACCCCTCGTCTCCTTCACCGCCGACTTCAAGAAGGATGTGAAGGTCTTCGGGGCCCTGATCCTGGGGGAG  
CTGGAGAAGGGGCAGAGTCAGTTCCAGGCCCTCTGCTTTGTACCCAGCTGCAGCACAATGAGATCATCCCCAGT  
GAGGCCATGGCCAAGCTCCGGCAGAAAAATCCCCGGGCAGTGCGGCAGGCGGAGGAGGTTTCGGGGTCTGGAGCAT  
CTGCACATGGATGTGCTGTCAACTTCAGCCAGGGGGCCCTGCTGAGCCCCCATCTCCACAACGTGTGTGCCGAG  
GCCGTGGATGCCATCTACACCGCCAGGAGGATGTCCGGTTCTGGCTGGAGCAAGGTGTGGACAGTTCTGTGTTT  
GAGGCTCTGCCCCAAGGCCTCAGAGCAGGCGGAGCTGCCTCGCTGCAGGCAGGTGGGGGACCACGGGAAGCCCTGC  
GTCTGCCGCTATGGCCTGAGCCTGGCCTGGTACCCCTGCATGCTCAAGTACTGCCACAGCCGCGACCGGCCACG  
CCCTACAAGTGTGGCATCCGCAGCTGCCAGAAGAGCTACAGCTTCGACTTCTACGTGCCCCAGAGGCAGCTGTGT  
CTCTGGGATGAGGATCCCTACCCAGGCTAG

3707/6881  
**FIGURE 3419**

MCSPVPGTQGYRDVIEHLLHTKHHAGHKVDAKRGVQPTKTLRVVRRLPDGQVTEESLQADSDADSISLELRKP  
DGTLSFTADFKKDVKVFRALILGELEKGQSQFQALCFVTQLQHNEIIPSEAMAKLRQKNPRAVRQAEVVRGLEH  
LHMDVAVNFSQGALLSPHLHNVCAEAVDAIYTRQEDVRFWLEQGVDSSVFALPKASEQAELPRCRQVGDHGKPC  
VCRYGLSLAWYPCMLKYCHSRDRETPYKCGIRSCQKSYSFDFYVPRQLCLWDEDPYPG

3708/6881

**FIGURE 3420**

CTCCTCACAGGTGTGTCTCTAGTCCCTCGTGGTTGCCTGCCCCACTCCCTGCCGAGACGCCTGCCAGAAAGGTAC  
CTATCTGAACCCCAGCAAGCCTGAAACAGCTCAGCCAAGCACCCTGCCGATGGAAGCTGCAGATGCCTCCAGGAG  
CAACGGGTCGAGCCCAGAAGCCAGGGATGCCCCGAGCCCGTCGGGCCCCAGTGCCAGCCTGGAGAATGGCACCAA  
GGCTGACGGCAAGGATGCCAAGACCACCAACGGGCACGGCGGGGAGGCAGCTGAGGGCAAGAGCCTGGGCAGCGC  
CCTGAAGCCAGGGGAAGGTAGGAGCGCCCTGTTCCGCGGCAATGAGTGGCGGCGACCCATCATCCAGTTTGTGCA  
GTCCGGGGACGACAAGAATCCAATCTTCAAGTCTGAGTCTATGGAAGCAAGAGGTGCGCGTACGCAGGGCT  
CCAGCTGGGGGCTGCCAAGAAGCCACCCGTTACCTTTGCCGAAAAGGGCGAGCTGCGCAAGTCCATTTTCTCGGA  
GTCCCGGAAGCCACGGTGTCCATCATGGAGCCCCGGGAGACCCGGCGGAACAGCTACCCCGGGCCGACACGGG  
CCTTTTTTACGGTCCAAGTCCGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAGCAGAAGGCGGT  
CAAGTCTGCCTGGTGTGCCAGGCCTCCTTCTGCGAGCTGCATCTCAAGCCCCACCTGGAGGGCGCCGCTTCCG  
AGACCACAGCTGCTCGAGCCCATCCGGGACTTTGAGGCCCGCAAGTGTCCCGTGCATGGCAAGACGATGGAGCT  
CTTCTGCCAGACCGACCAGACCTGCATCTGCTACCTTTGCATGTTCCAGGAGCACAAGAATCATAGCACCGTGAC  
AGTGGAGGAGGCCAAGGCCGAGAAGGAGACGGAGCTGTCACTGCAAAAGGAGCAGCTGCAGCTCAAGATCATTGA  
GATTGAGGATGAAGCTGAGAAGTGGCAGAAGGAGAAGGACCGCATCAAGAGCTTACCACCAATGAGAAGGCCAT  
CCTGGAGCAGAACTTCCGGGACCTGGTGGCGGACCTGGAGAAGCAAAAGGAGGAAGTGAGGGCTGCGCTGGAGCA  
GCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCATGGATGCTCTGGATGAGAGAGCCAAGGTGCTGCATGA  
GGACAAGCAGACCCGGGAGCAGCTGCATAGCATCAGCGACTCTGTGTTGTTTCTGCAGGAATTTGGTGCATTGAT  
GAGCAATTACTCTCTCCCCCACCCTGCCACCTATCATGTCCTGCTGGAGGGGGAGGGCCTGGGACAGTCACT  
AGGCAACTTCAAGGACGACCTGCTCAATGTATGCATGCGCCACGTTGAGAAGATGTGCAAGGCGGACCTGAGCCG  
TAACCTTATTGAGAGGAACCATGAGAGAAGGTGGTGACCATCGCTATGTGAACAATAACGACAGCTTCGG  
GGGTGAGTGGAGTGACCCGACACCATGAAGAGATACTCCATGTACCTGACACCCAAAGGTGGGGTCCGGACATC  
ATACCAGCCCTCGTCTCTTGGCCGCTTACCAAGGAGACCACCCAGAAGAATTTCAACAATCTCTATGGCACCAA  
AGGTAACATACCTCCCGGTCTGGGAGTACTCCTCCAGCATTCAGAACTCTGACAATGACCTGCCCGTCTGCTCA  
AGGCAGCTCCTCCTTCTCCTGAAAGGCTATCCTCCTCATGCGGAGCCAAAGCCCCAAGGCCAGCCCCAGAC  
TTGGAAATCTGGCAAGCAGACTATGCTGTCTACTACCGGCCATTCTACGTCAACAAAGGCAACGGGATTGGGTC  
CAACGAAGCCCCATGAGCTCCTGGCGGAAGGAACGAGGCGCCACACCCCTGCTCTTCTCCTGACCTGCTGCTC  
TTGCCTTCTAAGCTACTGTGCTGTGCTGGGTGGGAGGGAGCCTGGTCTGCACCTGCCCTCTGCAGCCCTCTGCC  
AGCCTCTTGGGGGAGTTCGGCCCTCTCCGACTTCCCCACTGGCCACACTCCATTGAGACTCCTTTCTGCCTTG  
TGACCTCAGATGGTCAACCATATTCCTGTGCTCAGAGGCCAACCCATCACAGGGGTGAGATAGGTGGGGCCTGC  
CCTAACCCGCCAGCCTCCTCCTCTCGGGCTGGATCTGGGGGCTAGCAGTGAGTACCCGCATGGTATCAGCCTGCC  
TCTCCCGCCACGCCCTGCTGTCTCCAGGCCTATAGACGTTTCTCTCAAGGCCCTATCCCCAATGTTGTGACG  
AGATGCCTGGACAGCACAGCCACCCATCTCCCATTCACATGGCCACCTCCTGCTTCCAGAGGACTGGCCCTAC  
GTGCTCTCTCTCGTCTACCTATCAATGCCAGCATGGCAGAACCTGCAGCCCTTGGCCACTGCAGATGGAAACC  
TCTCAGTGTCTTGACATACCCATACCCAGGCGGTGGGTCTCCACCACAGCCACTTTGAGTCTGTGGTCCCTGGAG  
GGTGGCTTCTCTGACTGGCAGGATGACCTTAGCCAAGATATTCCTCTGTTCCCTCTGCTGAGATAAAGAATTCC  
CTTAACATGATATAATCCACCCATGCAATAGCTACTGGCCAGCTACCATTTACCATTTGCCTACAGAATTTCA  
TTCAGTCTACACTTTGGCATTCTCTCTGGCGATGGAGTGTGGCTGGGCTGACCGCAAAAGGTGCCTTACACACTG  
CCCCACCCCTCAGCCGTTGCCCATCAGAGGCTGCCTCCTCCTCTGATTACCCCCATGTTGCATATCAGGGTG  
CTCAAGGATTGGAGAGGAGACAAAACCAGGAGCAGCAGTGGGGACATCTCCCGTCTCAACAGCCCCAGGCCTA  
TGGGGGCTCTGGAAGGATGGGCCAGCTTGAGGGGTGGGGAGGGAGACATCCAGCTTGGGCTTTCCCTTTGGA  
ATAAACCATTTGGTCTGTC

3709/6881  
**FIGURE 3421**

MEAADASRNGSSPEARDARSPSGPSGSLNGTKADGKDAKTTNGHGGEAAEGKSLGSALKPGEGRSALFAGNEW  
RRPIIQFVESGDDKNSNYFSMDSMEGKRSPYAGLQLGAACKPPVTFAEKGELRKSIFSES RKPTVSIMEPGETRR  
NSYPRADTGLFSRSKSGSEEVLCDSICIGNKQKAVKSLVCQASFCELHLKPHLEGAAFRDHQLLEPIRDFEARKC  
PVHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQLKIEIEDEAEKWQKEKDRIK  
SFTTNEKAILEQNFRDLVRDLEKQKEEVRAALEQREQDAVDQVKVIMDALDERAKVLHEDKQTREQLHSISDSVL  
FLQEFGALMSNYSLPPPLPTYHVLLEGEGLGQSLGNFKDDLLNVCMRHVEKMCKADLSRNFIERNHMENGGDHRY  
VNNTNSFGGEWSAPDTMKRYSMYLTPKGGVRTSYQPSSPGRFTKETTKNFNNLYGKGNYSRVWEYSSSIQN  
SDNDLPVVQGSSSFSLKGYPSLMRSQSPKAQPQTWKSGKQTMLSHYRPFYVNKNGNGIGSNEAP

3710/6881  
**FIGURE 3422**

CTCCTCACAGGTGTGTCTCTAGTCCTCGTGGTTGCGTCCCCACTCCCTGCCGAGACGCCTGCCAGAAAGGTAC  
CTATCCTGAACCCAGCAAGCCTGAAACAGCTCAGCCAAGCACCTGCGATGGAAGCTGCAGATGCCTCCAGGAG  
CAACGGGTCGAGCCCAGAAGCCAGGGATGCCCGGAGCCCGTCGGGCCCCAGTGGCAGCCTGGAGAATGGCACCAA  
GGCTGACGGCAAGGATGCCAAGACCACCAACGGGCACGGCGGGGAGGCAGCTGAGGGCAAGAGCCTGGGCAGCGC  
CCTGAAGCCAGGGGAAGGTAGGAGCGCCCTGTTTCGCGGCAATGAGTGGCGGCGACCCATCATCCAGTTTGTGCA  
GTCCGGGGACGACAAGAAGTCCAAGTCTCAGCATGGACTCTATGGAAGGCAAGAGGTGCGCGTACGCAGGGCT  
CCAGCTGGGGGCTGCCAAGAAGCCACCCGTACCTTTGCCGAAAAGGGCGAGCTGCGCAAGTCCATTTTCTCGGA  
GTCCCGGAAGCCACGGTGTCCATCATGGAGCCCCGGGAGACCCGGCGGAACAGCTACCCCCGGGCCGACACGGG  
CCTTTTTTACGGTCCAAGTCCGGCTCCGAGGAGGTGCTGTGCGACTCCTGCATCGGCAACAAGCAGAAGGCGGT  
CAAGTCTGCCTGGTGTGCCAGGCCTCCTTCTGCGAGCTGCATCTCAAGCCCCACCTGGAGGGCGCCGCTTCCG  
AGACCACAGCTGCTCGAGCCCATCCGGGACTTTGAGGCCCGCAAGTGTCCCGTGCATGGCAAGACGATGGAGCT  
CTTCTGCCAGACCGACAGACCTGCATCTGCTACCTTTGCATGTTCCAGGAGACAAGAATCATAGCACCGTGAC  
AGTGGAGGAGGCCAAGGCCGAGAAGGAGACGGAGCTGTCACTGCAAAAGGAGCAGCTGCAGCTCAAGATCATTGA  
GATTGAGGATGAAGCTGAGAAGTGGCAGAAGGAGAAGGACCGCATCAAGAGCTTCAACCAATGAGAAGGCCAT  
CCTGGAGCAGAACTTCCGGGACCTGGTGCGGGACCTGGAGAAGCAAAAGGAGGAAGTGAGGGCTGCGCTGGAGCA  
GCGGGAGCAGGATGCTGTGGACCAAGTGAAGGTGATCATGGATGCTCTGGATGAGAGAGCCAAGGTGCTGCATGA  
GGACAAGCAGACCCGGGAGCAGCTGCATAGCATCAGCGACTCTGTGTTGTTTCTGCAGGAATTTGGTGCATTGAT  
GAGCAATTACTCTCTCCCCCACCCTGCCACCTATCATGTCTGCTGGAGGGGGAGGGCCTGGGACAGTCACT  
AGGCAACTTCAAGGACGACCTGCTCAATGTATGCATGCGCCACGTTGAGAAGATGTGCAAGGCGGACCTGAGCCG  
TAACCTTATTGAGAGGAACCACATGGAGAACGGTGGTGACCATCGCTATGTGAACAATAACGAACAGCTTCGG  
GGGTGAGTGGAGTGACCCGGACACCATGAAGAGATACTCCATGTACCTGACACCCAAAGGTGGGGTCCGGACATC  
ATACCAGCCCTCGTCTCCTGGCCGCTTCACCAAGGAGACCACCCAGAAGAATTTCAACAATCTCTATGGCACCAA  
AGGTAACTACACCTCCCGGTCTGGGAGTACTCCTCCAGCATTGAGAACTCTGACAATGACCTGCCCCGTCGTCCA  
AGGCAGCTCCTCCTTCTCCCTGAAAGGCTATCCCTCCCTCATGCGGAGCCAAAGCCCCAAGGCCAGCCCCAGAC  
TTGGAAATCTGGCAAGCAGACTATGCTGGTGGTTTAAGCAAGGTCTGAGCATCCCTCAAGTCTGCTGTGGACCA  
CACAAAGGCAAGGAGCTGACCAGGAGGTGTGAGTTCCCTGAGAGACAGGGCCAAAGGCAGTGATCCCTTGAGTCT  
CACTACCGGCCATTCTACGTCAACAAAGGCAACGGGATTGGGTCCAACGAAGCCCCATGAGCTCCTGGCGGAAGG  
GTGCTCAAGGATTGGAGAGGAGACAAAACAGGAGCAGCACAGTGGGGACATCTCCCGTCTCAACAGCCCCAGGC  
CTATGGGGGCTCTGGAAGGATGGGCCAGCTTGCAGGGGTGGGGAGGGAGACATCCAGCTTGGGCTTTCCCTTT  
GGAATAAACCATTGGTCTGTC

3711/6881

**FIGURE 3423**

MEAADASRSNGSSPEARDARSPSGPSGSLNGTKADGKDAKTTNGHGGEAAEGKSLGSALKPGEGRSALFAGNEW  
RRPIIQFVESGDDKNSNYFSMDSMEGKRSPYAGLQLGAACKPPVTFAEKGELRKSIFSES RKPTVSIMEPGETR  
NSYPRADTGLFSRSKSGSEEVLCDSICIGNKQKAVKSCLVQASFCELHLKPHLEGAAFRDHQLLEPIRDFEARKC  
PVHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQLKIIIEIEDEAEKWQKEKDRIK  
SFTTNEKAILEQNFRDLVRDLEKQKEEVRAALEQREQDAVDQVKVIMDALDERAKVLHEDKQTREQLHSISDSVL  
FLQEFGALMSNYSLPPPLPTYHVLLLEGGLGQSLGNFKDDLLNVCMRHVEKMCKADLSRNFIERNHMENGGDHRY  
VNNYTNSTFGGEWSAPDTMKRYSMYLTPKGGVRTSYQPSSPGRFTKETTKQNFNNLYGKGNYSRVWEYSSSIQN  
SDNDLPVVQSSSFSLKGYP SLMRSQSPKAQPQTWKSQKQTMLVV

3712/6881

**FIGURE 3424**

GGTGACTTTTTGAAAAGATAGTATCTCTTGTGTGCAAGAAATGGTCCATCTGTGATTTCAAGTCTCTCGCTTGAGT  
GAATTGGATGGAAGTGTGAATTTAGCCGAAGTGGCCAAAGAAATCCTGTCCTGTGATAATGAACGCCATCAGC  
CTCTGCACCTCTGTTTTCCCTTCTGCCACATGTTGCCTGTTCTCCGTGACTTTGGCCCCGAGCGCCTCCACCCC  
AGAGACCCGGACCAAGTTCACACAGGACAATCTGTGCCGTGCCAGCGCAAGCGCCTGGAGCTCGGCCAACCTGT  
GGGTTCTTGTGGACTGCATCCTTCGCGACACCTCCGAGGACCTGGGACTCCAGTGTGACGCCGTGAACCTGGCCT  
TCGGGCGCCGCTGTGAGGAAGTGGAGGACGCGCGGCACAAGCTGCAGCACCACCTGCACAAGATGCTGCGGGAAA  
TCACAGATCAGGAACACAACGTGGTGGCACTGAAGGAGGCCATCAAGGACAAGGAGGAACCTCTGCACATAGCCC  
AGACCCGGCTGTACCTGCCCTCACACCGGCCCAACATGCAGCTGTGCCGCGAAGCAGCCCAGTTCAGGTACTGCC  
TGGGCCTCTGAAGCAGTCCCAXGTGCCCCCATCCACCTCCTCGCTGTTACCCTCTCCAATAAACACTCCAATCTC  
CACACACACATCCCCACAGGTGCTGAGAGGGGAGGGAGACTTTGCGGCCACACACAACACGCAAGCAGCCTTA  
AACACACAGATATAGACATGACACTGGGCAGGTCATGGGTCGGGGGCCTCCAGTGCCAGGGACCTGTGCCACG  
TGGTCTCACCCACCCCTGTGCTACCTCATCTTCCCGGGAGGAAGCTCCTTCAGACAAGGTGAGCTCCTGGAGGC  
CACGGGGCCAGAGAGGCCAGAGAGGGCCATTCCCTGCTGCCCTGAGGGTGTGTCCCCACCTCTGGTGAAAGTA  
TGACCTACGCCTGGGCTACAGGCATAGATGGGCCGTCCTTTTGTTTCCCTTGTTAACGGATGCC

3713/6881  
**FIGURE 3425**

MLPVLRDFGPAAPPPQRPGPSSHRTICAVPSASAWSSANLWVLVDCILRDTSEDLGLQCDVNLAFGRRCEELED  
ARHKLQHHLHKMLREITDQEHNVVALKEAIKDKEEPLHIAQTRLYLPSHRPNMQLCREAAQFRYCLGL



3714/6881

**FIGURE 3426**

ATGGGAAATTCGATGGACATGGACATAAGCCCCCTGAGGCCCCAGGACTATCTTTTCAGTTGTGAACTAAAGGCC  
GACGAATTGAAGTGTGGTTCAGGGCCAGTGTATATTAGTGGACAGCACTTAGTATCTGTGGAGGAAGATGCAGAG  
TCAGAAGATGAAGAAGAGGAGGATGTGAACTCTTAATCGAAGCCAAGTTCATCAATTATGTGAAGAATTGCTTC  
CGGAAGACTGACCAGGAGGCTATTCAAGATCTCTGGCAGCGGAGGAAGCCTCTTGAAGAAAATAGTTTAAACAGT  
TTTTTATAA

3715/6881  
**FIGURE 3427**

ACAATTTTCGCGCCAAACTTGACCGCGCTTCTGCTGTAACGAGCGGGCTCGGAGGTCTCCCGCTGCTGTCAATGG  
TTGGTTTCGCTAAACTGCATCGTCGCTGTGTCCCAGAACATGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCAC  
CGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCACAACCTCTTCAGTAGAAGGTAAACAGAACTCTGGTGA  
TTATGGGTAAGAAGACCTGGTTCTCCATTCTGAGAAGAATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCA  
GCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTCTTTCCAGAAGTCTAGATGATGCCTTAAACCTTACTG  
AACAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGCAGTTCTGTTTATAAGGAAGCCATGA  
ATCACCCAGGCCATCTTAACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAA  
TTGATTTGGAGAAATATAAACTTCTGCCAGAATACCCAGGTGTTCTCTCTGATGTCCAGGAGGAGAAAGGCATTA  
AGTACAAATTTGAAGTATATGAGAAGAATGATTAATGAAGGTGTTTTCTAGTTTAAAGTTGTTCCCCCTCCCTC  
TGAAAAAGTATGTATTTTTACATTAGAAAAGGTTTTTGTGACTTTAGATCTATAATTATTTCTAAGCAACTA  
GTTTTTATTTCCCACTACTCTTGTCTCTATCAGATACCATTTATGAGACATTCTTGCTATAACTAAGTGCTTCTC  
CAAGACCCCAACTGAGTCCCCAGCACCTGCTATAGTGAGCTGCCATTCCACACCCATCAGATGTGGCAGCTCTTGC  
CAGTCTTGACATTGTGCGGCTTTTACATGTTGGTAATATTTTATAAAGATGAAGATCCACATACCTTCAACT  
GAGCAGTTTCACTAGTGGAATAACAAAAGATTCTACGTGTATATCCAGAGGTTTGTAGATAAATGTTGCCACC  
TTGTTTGTAACAGTGGAATAATGAAAACAACCTGGAAGTCCAGTGATGGGAAAATGAGTATGTTTCTGTCTTAGA  
TTGGGGAACCCAAAGCAGATTGCAAGACTGAAATTTAGTGAAAGCAGTGATTTTGCTAGGTCATACCAGAAATC  
ATCAATTGAGGTACGGAGAACTGAAGTGAAGAAGTAAGAAAAGCAATTTAAAGTCAGCGAGCAGGTTCTCATTG  
ATAACAAGCTCCATACTGCTGAGATACAGGGAAATGGAGGGGGGAAAGCTGGAGTATTGATCCCGCCCCCTCTCT  
TGTTTGTCAGCTCCCTGTCTGTGTGGGCGGAACATAGTCCAGCTGCTCTATAGCAAGTCTCAGGTGTTTGCA  
GTAAGAAGCTGCTGGCATGCACGGGAACAGTGAATGCCAAACACTTAAAGCAATTCGATGTTTAAAGTATGTAAGT  
TCTTTTTTTTTTAGACAGCGTTTCGCTCTTGTTGCCAGGCTAGCATGCAATGGTGTGACCTCGGCTTACTGCAA  
CCTCCGCTTTCCAGATTCAAGCGATTCTCCTGCCTCAGGCTCCCAAGTAGCTGGGACCGGGTGCGCGCCACCAC  
GCCCCGCTAATTTTTGTATTTTGTATTTTGGTAGAGATGGGGTTTCGCCATGTTGGTCAGGCTAGTCTCGAAT  
CGTGACCGCAAGCGATTACCCACCTCAGCCTCCCAAAGTGCTGGGATTACCGGCTTGAGCCACCACACCCGGCA  
CATCTTCATTCTTTTTATGTAGTAAAAAGTATAAGGCCACACATGGTTTTATTGAAGTATTTTACAATTTAAAA  
AATACAGAAGCAGGAAAACCAATTATAAGTTCAAGTGAGGGATGATGGTTGCTTGAACCAAGGGTTGCATGTAG  
TAAGAAATTGTGATTAAAGATATATTTTAAAGTTATAAGTAGCAGGATATTCTGATGGAGTTTGACTTTGGTTTT  
GGGCCACGGAGTTTCAGATGCCTTTGAGAAATGAATGAAGTAGAGAGAAAATAAAAGAAAAGTACCCAGGCAC  
AGTGCTCAGCCTGTAATCCAGCGCTTTGGGAGGCTAAGGCAGGCAGATCACTTGAGACCAGCTTGGGCAACA  
TGGCGAAGCCCCATCTCTACAAAAACACAGAAATTAGCTGGGCATTGTGGCGCACACCTGTATTTCCATCTACT  
CAGGAAGCTGAGATGGAAGAATTAATTGAGCCACGAGTTCAAGGCTGCAGTGAGTCGTGATTGTGCCACTGCAC  
TCCAGCCGGGGTGACAGAAGAGACCTTGCTCGAAAAGGAATCTGAAAACAATGGAACCATGCCTTCATAATCT  
AGAAAGTTATTTTCACTGATAAATCTATATTCACCCAAATAATCAAGGGTGAAGGTAAAATAATACATTTTAG  
ACAAGCAAAGACTCAGGGGTACCTCCATGTGCCCTTTTAGGGAAGCTGTTGGAGAAAATACTCCAGCAAAATG  
AAGGAGTACACAAACCAGAGAATGACATGAATCCAGCAATAGGATCCAACACAGGCAATATTCAGCTATGGAG  
CTAGCTTTAAAAGGAACAGTAAAAATATTAATCGGTTAGCTGGGTGGAATGGCCCATGCCTGTAGTCCCAGCTA  
CTCGGGAGGCTCAGCAGCAGGACGACTTGAGCCCAAGAGTTCCAGACCAGCCTGGCCACCTTAGTGAGATCCCTT  
CTCTTAAAAATAATAACTTATTGCCAGATTGGGGCATTGGGAAAGAAGTTCATTGAAGATAAAGCAAAAGTAAA  
AAAAAAAAAAAAAAAAAAAAAAGGGGAAAGGGTTGGTTAGGCAATCATTCTAGGGCAGAAAGAAGTACAGGATAG  
GAAGAGCATAATACACTGTTTTTCTCAACAAGGAGCAGTATGTACACAGTCATAATGATGTGACTGCTTAGCCCC  
TAAATATGGTAACACTCTGAGGACAATATGGGAGGAAAAGTGAAGATTGTGATGGTGTAAGAGCTAAATCCTCAT  
CTGTATATCCAGAAATCACTATATAATACATAATAATGAAATGACTAAGTTATGTGAGGAAAAAACAGAAAGAC  
ATTGCTAAAAGAGTTAAAAGTCATTGCTCTGGAGAATTAGGAGGGATGGGCGAGGGGACTGTTAGGATGCATTAT  
AAACTGAAAAGCCTTTTTTAAATTTTATGTATTAATATATGCATTCACTTGAAAACTAAAAAAAACAATAATT  
TGGAAAAACCCATGAAGGTAACGGAAGGAAAACTAAGAGAATGAAAGTATTTGCCTCTGGAAGAACA  
CTGGCAGGACTGTTGTTTTTATTGTAAGACTTTTGGAGCCATTAAATTGACTTAACCATTTTCTATTCTTCTT  
TAATAAGAACAATTCATCTTAATAAAGAGTTACACTTGTTAATA

3716/6881  
**FIGURE 3428**

GGAGGTCCTCCCGCTGCTGTCATGGTTGGTTGCTAAACTGCATCGTCGCTGTGTCCCAGAACATGGGCATCGGC  
AAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCACAACCTCTTCA  
GTAGAAGGTAAACAGAATCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCCCTGAGAAGAATCGACCTTTA  
AAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTCTTCCAGAAGT  
CTAGATGATGCCTTAAACTTACTGAACAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGC  
AGTTCTGTTTATAAGGAAGCCATGAATCAGGAGGCTCTTAACTATTTGTGACAAGGATCATGCAAGACTTT  
GAAAGTGACACGTTTTTCCAGAAATTGATTTGGAGAAATATAAACTTCTGCCAGAATACCCAGGTGTTCTCTCT  
GATGTCCAGGAGGAGAAAGGCATTAAGTACAAATTTGAAGTATATGAGAAGAATGATTAATATGAAGGTGTTTT  
TAGTTTAAGTTGTTCCCCCTCCCTCTGAAAAAATACCATTTATGAGACATTCTTGCTATAACTAAGTGCTTCTC  
CAAGACCCCAACTGAGTCCCCAGCACCTGCTATAGTGAGCTGCCATTCCACACCCATCACATGTGGCACTCTTGC  
CAGTCCTTGACATTGTCGGGCTTTTCACATGTTGGTAATATTTATTAAAGATGAAGATCC

3717/6881  
**FIGURE 3429A**

ATGTC TGGCGGCGCCG CAGAGAAGCAGAGCAGCACTCCCGGTTCCCTGTTCTCTCGCCGCGGCTCCTGCCCC  
AAGAATGGCTCCAGCTCCGATTCTCTCCGTGGGGGAGAACTGGGAGCCGCGGCCGCCGACGCTGTGACCGGCAGG  
ACCGAGGAGTACAGGCGCCGCCACACTATGGACAAGGACAGCCGTGGGGCGGCCGCGACCACTACCACCACT  
GAGCACCCTTCTTCCGCGGAGCGTCATCTGTGACTCCAATGCCACTGCACTGGAGCTTCCCGGCCCTTCTCTT  
TCCCTGCCCCAGCCAGCATCCCCGCGGCTGTCCCGCAGAGTGTCCACCGAGCCCCACCGGGAAGAGACCGTG  
ACCGCCACCGCCACTTCCCAGGTAGCCAGCAGCCTCCAGCCGTGCCGCCCTGGGGAACAGGCGCTCGCGGGC  
CCTGCCCCCTCGACTGTCCCCAGCAGTACCAGCAAAGACCGCCAGTGTCCAGCCTAGCCTTGTGGGGAGCAAA  
GAGGAGCCGCCGCGCGGAGAGAAGTGGCAGCGGCGCGGCAGCGCCAAGGAGCCACAGGAGGAACGGAGCCAGCAG  
CAGGATGATATCGAAGAGCTGGAGACCAAGGCCGTGGGAATGTCTAACGATGGCCGCTTCTCAAGTTTGACATC  
GAAATCGGCAGAGGCTCCTTTAAGACGGTCTACAAAGGTCTGGACACTGAAACCACCGTGGAAGTCGCTGGTGT  
GAACTGCAGGATCGAAAATTAACAAAGTCTGAGAGGCAGAGATTTAAAGAAGAAGCTGAAATGTTAAAGGTCTT  
CAGCATCCCAATATTGTTAGATTTTATGATTCTGGGAATCCACAGTAAAAGGAAAGAGTGCATTGTTTGGTG  
ACTGAACTTATGACGTCTGGAACACTTAAACGTATCTGAAAAGGTTAAAGTGATGAAGATCAAAGTTCATAAGA  
AGCTGGTGCCGTGAGATCCTTAAAGGTCTTCAGTTTCTCATACTCGAACTCCACCTATCATTACC CGCATCTT  
AAATGTGACAACATCTTTATCACC GGCCCTACTGGCTCAGTCAAGATTGGAGACCTCGGTCTGGCAACCCTGAAG  
CGGGCTTCTTTTGCCAAGAGTGTGATAGGTACCCAGAGTTCATGGCCCTGAGATGTATGAGGAGAAATATGAT  
GAATCCGTTGACGTTTATGCTTTTGGGATGTGCATGCTTGAGATGGCTACATCTGAATATCCTTACTCGGAGTGC  
CAAAATGCTGCACAGATCTACCGTCGCGTGACCAAGTGGGGTGAAGCCAGCCAGTTTTGACAAAGTAGCAATTCTT  
GAAGTGAAGGAAATTATTGAAGGATGCATACGACAAAACAAAGATGAAAGATATTCCATCAAAGACCTTTTGAAC  
CATGCCCTTCTTCCAAGAGGAAACAGGAGTACGGGTAGAAATTAGCAGAAGAAGATGATGGAGAAAAATAGCCATA  
AAATTATGGCTACGTATTGAAGATATTAAGAAATTAAGGGAATAACAAAGATAATGAAGCTATTGAGTTTCT  
TTTGATTTAGAGAGAGATGTCCAGAAGATGTTGCACAAGAAATGGTAGAGTCTGGGTATGTCTGTGAAGGTGAT  
CACAAGACCATGGCTAAAGCTATCAAAGACAGAGTATCATTAATTAAGAGGAAACGAGAGCAGCGGCAGTTGGTA  
CGGGAGGAGCAAGAAAAAAAAGCAGGAAGAGAGCAGTCTCAAACAGCAGGTAGAACAAATCCAGTGCTTCCCAG  
ACAGGAATCAAGCAGCTCCCTTCTGCTAGCACCGGCATACCTACTGCTTCTACCCTTCAGCTTCAGTTTCTACA  
CAAGTAGAACCTGAAGAACCTGAGGCAGATCAACATCAACAACTACAGTACCAGCAACCCAGTATATCTGTGTTA  
TCTGATGGGACGGTTGACAGTGGTCAGGGATCCTCTGTCTTCACAGAATCTCGAGTGAGCAGCCAACAGACAGTT  
TCATATGGTTCCCAACATGAACAGGCACATTCTACAGGCACAGTCCCAGGGCATATACCTTCTACTGTCCAAGCA  
CAGTCTCAGCCCCATGGGGTATATCCACCTCAAGTGTGGCACAGGGGCAGAGCCAGGGTCAGCCATCCTCAAGT  
AGCTTAACAGGGGTTTCATCTTCCCAACCCATACAACATCCTCAGCAGCAGCAGGGAATACAGCAGACAGCCCCT  
CCTCAACAGACAGTGCAGTATTCACCTTTCACAGACATCAACCTCCAGTGAGGCCACTACTGCACAGCCAGTGAGT  
CAGCCTCAAGCTCCACAAGTCTTGCCTCAAGTATCAGCTGGAAAACAGCTTCCAGTTTCCCAGCCAGTACCAACT  
ATCCAAGGCGAACCTCAGATCCCAGTTGCGACACAACCCCTCGGTTGTTCCAGTCCACTCTGGTGCTCATTTCCCT  
CCAGTGGGACAGCCGCTCCCTACTCCCTTGCTCCCTCAGTACCCTGTCTCTCAGATTCCCATATCAACTCCTCAT  
GTGTCTACGGCTCAGACAGGTTTCTCATCCCTTCCCATACAATGGCAGCTGGCATTACTCAGCCTCTGCTCAG  
TTGGCTTCATCTGCTACAACAGCTGCGATCCCGGGGGTATCAACTGTGGTTCCCTAGTCAGCTTCCAACCCCTCTG  
CAGCCTGTGACTCAGCTGCCAAGTCAGGTTCACCACAGCTCCTACAACCAGCAGTTCAAGTCCATGGGAATACCA  
GCTAACCTTGGACAAGCTGCTGAGGTTCCACTTTCCTCTGGAGATGTTCTGTACCAGGGCTTCCCACCTCGACTG  
CCACCACAGTACCCAGGAGATTCAAATATTGCTCCCTCTTCCAACGTGGCTTCTGTTTGCATCCATTCTACAGTC  
CTATCCCCCTCCCATGCCGACAGAAGTACTGGCTACACCTGGGTACTTCCCACAGTGGTGCAGCCTTATGTGGAA  
TCAAATCTTTTAGTTTCTATGGGTGGTGTAGGAGGACAGGTTCAAGTGTCCCAGCCAGGAGGGAGTTAGCACAA  
GCCCCACTACATCCTCCCAGCAAGCAGTTTTGGAGAGTACTCAGGGAGTCTCTCAGGTTGCTCCTGCAGAGCCA  
GTTGCAGTAGCACAGACCCAAGCTACCCAGCCGACCACTTTGGCTTCCTCTGTAGACAGTGCACATTTCAGATGTT  
GCTTCAGGTATGAGTGATGGCAATGAGAACGTCCCATCTTCCAGTGGAAGGCATGAAGGAAGAACTACAAAACGG  
CATTACCGAAAAATCTGTAAGGAGTCGCTCTCGACATGAAAAAAGTTCACGCCAAAATTAAGAATTTTGAATGTT  
TCAAATAAAGGAGACCGAGTAGTAGAATGTCAATTAGAGACTCATAATAGGAAAATGGTTACATTCAAATTTGAC  
CTAGATGGTGACAACCCCGAGGAGATAGCAACAATTATGGTGAACAATGACTTTATTCTAGCAATAGAGAGAGAG  
TCGTTTGTGGATCAAGTGCAGAGAAATTATTGAAAAAGCTGATGAAATGCTCAGTGAGGATGTCAGTGTGGAACCA

3718/6881  
**FIGURE 3429B**

GAGGGTGATCAGGGATTGGAGAGTCTACAAGGAAAGGATGACTATGGCTTTTCAGGTTCTCAGAAATTGGAAGGA  
GAGTTCAAACAACCAATTCTGCGTCTTCCATGCCACAGCAAATAGGCATTCTACCAGTTCTTTAACTCAAGTT  
GTTCAATTCTGCGGGAAGGCGGTTTATAGTGAGTCTGTGCCAGAAAGCCGATTACGAGAATCAAAGTTTTCCCC  
AGTGAAATAACAGATACAGTTGCTGCCTCTACAGCTCAGAGCCCTGGAATGAACTTGTCTCACTCTGCATCATCC  
CTTAGTCTACAACAGGCCTTTTCTGAACTTAGACGTGCCCAAATGACAGAAGGACCCAACACAGCACCTCCAAAC  
TTTAGTCATACAGGACCAACATTTCCAGTAGTACCTCTTTCTTAAGTAGCATTGCTGGAGTCCCAACCACAGCA  
GCAGCCACAGCACCAAGTCCCTGCAACAAGCAGCCCTCTTAATGACATTTCCACATCAGTAATTCAGTCTGAGGTT  
ACAGTGCCCACTGAAGAGGGGATTGCTGGAGTTGCCACCAGCACAGGTGTGGTAACTTCAGGTGGTCTCCCCATA  
CCACCTGTGTCTGAATCACCAGTACTTTCCAGCGTAGTTTCAAGTATCACAATACCTGCAGTTGTCTCAATATCT  
ACTACATCCCCGTCACTTCAAGTCCCCACATCCACATCTGAGATCGTTGTTTCTAGTACAGCACTGTATCCTTCA  
GTAACAGTTTCAGCAACTTCAGCCTCTGCAGGGGCGAGTACTGCTACCCAGGTCTAAGCCTCCAGCTGTAGTA  
TCTCAGCAGGCAGCAGGCAGCACTACTGTGGGAGCCACATTAACATCAGTTTCTACCACCACTTCAATCCCAAGC  
ACAGCTTCACAGCTGTGCATTAGCTTAGCAGCAGTACTTCTACTCTACTTTAGCTGAAACCGTGGTAGTTAGC  
GCACACTCACTAGATAAGACATCTCATAGCAGTACAAGTGGATTGGCTTTCTCCCTCTCTGCACCATCTTCCTCT  
TCCTCTCTGGAGCAGGAGTGTCTAGTTATATTTCTCAGCCTGGTGGGCTGCATCCTTTGGTCAATCCATCAGTG  
ATAGCTTCTACTCTATTCTTCCCCAAGCAGCAGGACCTACTTCTACACCTTTATTACCCCAAGTACCTAGTATC  
CCACCCITGGTACAGCCTGTTGCCAATGTGCTGCTGTACAGCAGACACTAATTCATAGTCAGCCTCAACCAGCT  
TTGCTTCCCAACCAGCCCCATACTCATTGTCTGAAGTAGATTCTGATACACAACCCAAAGCTCTGGAATTGAT  
GACATAAAGACTCTAGAAGAAAAGCTGCGGTCTCTGTTCAAGTGAACACAGCTCATCTGGAGCTCAGCATGCCTCT  
GTCTCACTGGAGACCTCACTAGTCATAGAGAGCACTGTACACCAGGCATCCCAACTACTGCTGTGACCAAGC  
AAACTCTGACTTCTACCACAAGTACTTGCTTACCACCAACCAATTTACCCTAGGAACAGTTGCTTTGCCAGTT  
ACACCAGTGGTCACACCTGGGCAAGTTTCTACCCAGTCAGCACTACTACATCAGGAGTGAAACCTGGAAGTGT  
CCCTCCAAGCCACCTCTAACTAAGGCTCCGGTGTGCCAGTGGTACTGAACTTCCAGCAGGTACTCTACCCAGC  
GAGCAGCTGCCACCTTTTCCAGGACCTTCTCTAACCCAGTCCAGCAACCTCTAGAGGATCTTGATGCTCAATTG  
AGAAGAACACTTAGTCCAGAGATGATCACAGTGAATCTGCGGTTGGTCCGTGTGTCATGGCGGCTCCAACAGCA  
ATCACAGAAGCAGGAACACAGCCTCAGAAGGGTGTCTCAAGTCAAAGAAGGCCCTGTCTAGCAACTAGTTCA  
GGAGCTGGTGTTTTTAAGATGGGACGATTTTCAGGTTTCTGTTGCAGCAGACGGTGGCCAGAAAGAGGGTAAAAAT  
AAGTCAGAAGATGCAAAGTCTGTTCAATTTGAATCCAGCACCTCAGAGTCTCAGTGCTATCAAGTAGTAGTCCA  
GAGAGTACCTTGGTGAAACCAGAGCCGAATGGCATAACCATCCCTGGTATCTCTTCAGATGTGCCAGAGAGTGCC  
CACAAAATACTGCCTCAGAGGCAAAGTCAGACACTGGGCAGCCTACCAAGGTTGGACGTTTTTCAGGTGACAACT  
ACAGCAAACAAGTGGGTGCTTTTCTGTATCAAAAAGTGAAGACAAGATCACTGACACAAAGAAAGAGGACCA  
GTGGCATCTCTCTCTTTTATGGATTGGGAACAAGCTGTCTCTCTGCTGTGATACCAAAGAAAGAGAAGCCTGAA  
CTGTACAGCCTTCACATCTAAATGGGCCGCTCTTGACCCGGAGGCCGCTTTTTTAAGTAGGGATGTGGATGAT  
GGTTCCGGTAGTCCACACTCGCCCCATCAGCTGAGCTCAAAGAGCCTTCTAGCCAGAATCTAAGTCAAAGCCTT  
AGTAATTCATTTAACTCCTCTTACATGAGTAGCGACAATGAGTCAGATATCGAAGATGAAGACTTAAAGTTAGAG  
CTGCGACGACTACGAGATAAACATCTCAAAGAGATTGAGGACCTGCAGAGTCGCCAGAAGCATGAAATTGAATCT  
TTGTATACCAAATACTGGGCAAGGTGCCCCCTGCTGTTATTATTTCCCCCAGCTGCTCCCCCTTCAGGGAGAAGACGA  
CGACCCACTAAAAGCAAAGGCAGCAAATCTAGTCGAAGCAGTTCTTGGGGAATAAAAGCCCCCAGCTTTCAGGT  
AACCTGTCTGGTCAGAGTGCAGCTTCAGTCTTGACCCCCAGCAGACCCTCCACCTCCTGGCAACATCCCAGAG  
TCCGGGCAGAAATCAGCTGTTACAGCCCCCTTAAGCCATCTCCCTCCAGTGACAACCTCTATTACGCTTCAACAGT  
GATGGTGCCATTTCACTACCAAGCCTTTCTGCTCCAGGTCAAGGAACCAGCAGCACAAACACTGTTGGGGCAACA  
GTGAACAGCCAGCCGCCCAAGCTCAGCCTCCTGCCATGACGTCCAGCAGGAAGGGCACATTCACAGATGACTTG  
CACAAGTTGGTAGACAATTGGGCCCCGAGATGCCATGAATCTCTCAGGCAGGAGAGGAAGCAAAGGGCACATGAAT  
TAGCAGGGGCCCTGGAATGGCAAGGAAGTTCTCTGCACCTGGGCAACTGTGCATCTCCATGACCTCGAACCTGGGT  
GGCTCTGCCCCCATCTCTGCAGCATCAGCTACCTCTTAGGTCACTTCACCAAGTCTATGTGCCCCCACAGCAG  
TATGGCTTTCCAGCTACCCCAATTTGGCGCTCAATGGAGTGGGACGGGTGGCCAGCACCACAGCCACTTGGCCAG  
TTCCAACCTGTGGGAACTGCCTCTTGCAGAATTTCAACATCAGCAATTTGCAGAAATCCATCAGCAACCCCCCA  
GGCTCCAACCTGCGGACCACTTAG

3719/6881  
**FIGURE 3430A**

CGGCGGCGGCGGTAGTGGCGGCGGCGGCGGTGCCCGGGCGGCAGCGGCAGCAGTAGCGGCAGCCCTGAGGACGGT  
GAGACGGCCGCGGCGGCGGCGGCGACAGCGCGGAAGTCGCGCGGGACCCAGAGCTTCCCCCTGTCGCTAGTGCTGAG  
GCTTTCGCCTTTCTACCCAGCTTCTTGCTCAGGCCCCGGGCTGGGCTGGGCAGGGCAACGCGCCCCCGGGCAGG  
GGCGGAGCTGTAGATATGGTGTAAAGATACTTCTTCAAGATTGGACAGCTGGGGACCTTCTTCTGATTAACTTAA  
ACCAACTGTAGCCATAGAGACACCTCACAAGTTCCCATTTTGTGTGTGTGTGTGTGATTTCTGCTCACAC  
CTTTCCTGACCTTGCAACCATGTATGGAAGTGCCCGCTCTGTGGGAAGGTGGAGCCGAGCAGCCAGAGCCCTGG  
GCGTTCACCCAGGCTTCCACGTTCCCTCGCTGGGTACCGTCGAACCAACAGTACGGGAGGGAGTTTCGGGAAG  
CAGTGTGGAGGTGGCAGTGGGAAAACCTTTCAATGGAAAATATACAATCTTAAATGCTGCCTATGCCACCTC  
TGGCCCTATGTATCTAAGTGACCATGAAAATGTGGGTTCAGAAACACCTAAAAGCACCATGACACTTGGCCGTTT  
TGGGGGACGTCTGCCTTACGGTGTTCGGATGACTGCTATGGGTAGTAGCCCCAATATAGCTAGCAGTGGGGTTGC  
TAGTGACACCATAGCATTGGAGAGCATCACCTCCCTCCTGTGAGTATGGCATCCACTGTACCTCACTCCCTTCG  
TCAGGCGAGAGATAACACAATCATGGATCTGCAGACACAGCTGAAGGAAGTATTAAGAGAAAATGATCTCTTGCG  
GAAGGATGTGAAGTAAAGGAGAGCAAATTGAGTTCTTCAATGAATAGCATCAAGACCTTCTGGAGCCCAGAGCT  
GAAGAAGGAACGAGCCCTGAGAAAAGATGAAGCTTCAAATACCATTTGGAAGGAACAGTACAGAGTTGTACA  
GGAGGAAAACAGCACATGCAGATGACAATCAGGCTCTCCAGGATGAATTGCGGATCCAGAGGGACCTGAATCA  
GCTGTTTCAGCAGGATAGTAGCAGCAGGACTGGCGAACCTTGTGTAGCAGAGCTGACAGAGGAGAACTTTCAGAG  
GCTTCATGCTGAGCATGAGCGCAGGCCAAAGAGCTGTTTCTTCTCGAAAGACATTGGAGGAAATGGAGCTGCG  
TATTGAGACTCAAAGCAGACCCTAAATGCTCGGGATGAATCCATTAAGAAGCTTCTGGAATGTTGCAGAGCAA  
AGGACTTTCTGCCAAGGCTACCGAGGAAGACCATGAGAGAACAAGACGACTGGCAGAGGCAGAGATGCACGTTCA  
TCACCTAGAAAGCCTTTTGGAGCAGAAGGAAAAGAGAACAGTATGTTGAGAGAGGAGATGCATCGAAGGTTTGA  
GAATGCTCCTGATTCTGCCAAAACAAAAGCTCTGCAAACTGTTATTGAGATGAAGGATTCAAAAATTTCTCTAT  
GGAGCGTGGGCTTCGAGACCTGGAAGAGGAAATTCAGATGCTGAAATCGAATGGTGCTTTGAGTACTGAGGAAAG  
GGAAGAAGAAATGAAGCAAATGGAAGTGTATCGGAGCCATTCTAAATTTATGAAAAATAAGATTGGCCAGGTGAA  
ACAGGAGCTGTCCAGAAAGGACACAGAACTACTCGCCCTGCAGACAAAGCTAGAAACACTCACAAACCAAGTTCTC  
AGATAGTAAACAGCACATTGAAGTGTGGAAGGAGTCCTTGACTGCTAAGGAGCAGAGGGCTGCCATCCTGCAGAC  
TGAGGTGGATGCTCTCCGATTGCGTTTTGGAAGAGAAGGAAACCATGTTGAATAAAAAGACAAAACAAATTCAGGA  
TATGGCTGAAGAGAAGGGGACACAAGCTGGAGAGATACATGACCTCAAGGACATGTTGGATGTGAAGGAGCGGAA  
GGTTAATGTTCTTCAGAAGAAGATTGAAAATCTTCAAGAGCAGCTTAGAGACAAGGAAAAGCAGATGAGCAGCTT  
GAAAGAACGGGTCAAATCCTTGCAGGCTGACACCACCAACACTGACACTGCCTTGACAACTTTGGAGGAGGCCCT  
TGCAGAGAAAGAGCGGACAATTGAACGCTTAAAGGAGCAGAGGGACAGAGATGAGCGAGAGAAGCAAGAGGAAAT  
TGATAACTACAAAAAGATCTTAAAGACTTGAAGGAAAAAGTCAGCCTGTTGCAAGGCGACCTTTCAGAGAAAGA  
GGCTTCACTTTTGGATCTGAAAGAGCATGCTTCTTCTGGCATCCTCAGGACTGAAAAAGGACTCACGGCTTAA  
GACACTAGAGATTGCTTTGGAGCAGAAGAAGGAGGAGTGTCTGAAAATGGAATCACAATTGAAAAAGGCACATGA  
GGCAGCATTTGAAGCCAGAGCCAGTCCAGAGATGAGTGACCGAATACAGCACTTGGAGAGAGAGATCACCAGGTA  
CAAAGATGAATCTAGCAAGGCCCAGGCAGAAGTTGATCGACTCTTAGAAATCTTGAAGGAGGTGGAAAATGAGAA  
GAATGACAAAGATAAGAAGATAGCTGAGTTGGAAAGTCTCACCTCAAGGCAAGTGAAAGACCAGAATAAGAAGGT  
AGCAAATCTGAAGCACAAAGGAACAGGTGGAAAAAAGAAGAGTGACAAATGTTAGAGGAGGCGCGACGACGGGA  
GGACAATCTCAACGACAGCTCTCAGCAGCTACAGGTGGAGGAGTTACTGATGGCCATGGAGAAGGTAAAGCAGGA  
ACTAGAATCCATGAAAGCAAAGCTGTCTCCACCCAGCAGTCTCTGGCAGAAAAGGAACTCACTTGACTAATCT  
TCGGGCAGAGAGAAGGAAACACTTAGAGGAAGTTCTGGAGATGAAGCAAGAAGCTCTTCTGGCTGCCATTAGTGA  
AAAAGACGCCAATATAGCTCTCTTGGAGCTTTCGTCTCTAAGAAGAAGACCCAAGAGGAAGTGGCTGCCCTGAA  
GCGGGAGAAGGATCGTCTGGTACAGCAGCTTAAGCAGCAGACGCCAAAATCGAATGAAGCTAATGGCCGACAATA  
CGAGGATGACCATTCAAATCCTCCCATTTCAAATCAAACAAATCACAAGCCCTCCCGAGACCAGGATGAGGAGGA  
GGGTATATGGGCATAGCCAATCAGAGGCTTAGTTCAGCCATTTTGTTCAGAACGATCATCCAGCCCTCTTAGAA  
CTTGACCAAAATAGAAGTAAATTAAAGTTGTACATTGGACACCTGACAACCTCTGCCATGACCGAGACCCCTG  
ATCCTCCGTGGACTCACTCCACCAGCTTCTTATACTTGGACGATGACCAGGCGGCTTGGGAGAAATGAGCTGCAG  
AAGATGACCCGGGGCAGCTTCAGGATGAGTTAGAGAAAGGTGAACGGGACAATGCAGAACTGCAGGAGTTTGCC  
AACGCCATTCTTCAGCAGATAGCAGACCATTGTCCCGACATCCTAGAGCAAGTGGTCAACGCCCTGGAAGAGTCC

3720/6881  
**FIGURE 3430B**

TCTTGACCCTGCTTTATGGGGAAGCCTGAGGTAGTCAACCCAGGAGCCAAGAAAAGAGAACTACGAGGAACAGGT  
GCCCCGAACCTTCTTGGCACCAAACTACAACTTTCATCCCACTTGCTCACTTGAAGAAGTGTGATTCCAGCA  
CCGTTTCTACATCTGCCATCTTACTCTGCCTTTCTGCTTTGGATGTGGTCTCTACACTAACCTTCTTGATGTCCA  
GGGTAGATAAAGGGTCGAATCTCTCTGAAGAACTGCCACCTGGTCATCAGCAGTGGAGAAGTGTGGGAGCTGGTG  
GCTCTGCCCTGACAGAGAGCCATGGAGCAGAGGAGCCTCTCACCTCCTGTCTCTGACATGAGAATGAAACCAGG  
AATGGACTTGAGATTCAACAGGCTGAGAGGATGCCTCCAATGGACCAGAGAGCTGAGTGTTCTAATATCACAATA  
GGTGCTTTCTCCTAAAAGGGCAAAAAACAATCTCAAAAAGATTAGAAAAAGAGAAGGGGGGAAGGGAAGAGAAAA  
TCGACTCTTCTTTTTACTGTCTCTTCTGCTTACTTTCCACATGAGATGCTTTGTACCGGGGAGCTGTGAGCAGGC  
CTCACGATGGCTTGGGAGCACTCGTTTCTCCAAGGTCTGAGTCTTCATCCAGCCCTGCCTGTCTGTGCGAGCCTT  
CCTCACTCTGTTTCTCGGCCAGTTAACAAGAAGATGGTGTGAGGTGTTCTCCACCAGTCTCTCCTGTTTGAGACT  
GTTGACGTTATCATACTGAGGTGTTAGATCAAATATCTCTAATTGAAGAACATGTGAGGTTGAAAGAGCACCAGC  
CAGGGCAACATAGCGTGACCTGTCTCTACAAAAAATTAAAAAGAGAACATACAAAGTTGACATATGAGACCCTG  
TTGTCCCCGCTGCAGCTTTGCCCCAGTAACAGATGCCCGTTGCTCTTGGGCTGGTTTCCCCTGAACACCTCCAA  
GAGGCTGCCTGCCTTGCCAGCACCCGTGTCTGAGCTCCTGCAGCCCAGTGGCTGCTGAAGTTGTGATCCCTCAC  
TCACCCTGCTAGCTTTGCCCTTGACTCGTCTTCTCTGAACCTCAGCCTCGTGCATTGCCCTGGAACCTTCTTCTAG  
CATAAATGAAGGTTTTTCTCTACACACATTCTTCTCGGTTATTTCATTGAGAGAATATTTATGAAATGCCT  
ACTGTGTGCAAGTCATCCATCCTTGAAAAGGCCACTTCTCAGTGAGGGAGAGATGTAGTGGATTCTGTGAGACAT  
ACCTGCTGGAGTTGAAGCAGTAAATAGCATGTCCTTCCCCTCCCCGATCTTAAGGTGTGTTTTCTAGA

3721/6881  
**FIGURE 3431**

MYGSARSVGKVEPSSQSPGRSPRLPRSPRLGHRRTNSTGGSSGSSVGGGSGKTLSMENIQSLNAAAYATSGPMYLS  
DHENVGSETPKSTMTLGRSGGRLPYGVRMTAMGSSPNIASSGVASDTIAFGEHHLPPVSMASVPHSLRQARDNT  
IMDLQTQLKEVLRENDLLRKDVEVKESKLSSSMNSIKTFWSPELKKERALRKDEASKITIWKEQYRVVQEEHQHM  
QMTIQALQDELRIQRDLNQLFQQDSSSRTGEPVLAELTEENFQRLHAEHERQAKELFLLRKTLEEMELRIETQKQ  
TLNARDESIIKLEMLQSKGLSAKATEEDHERTRRLAEAEHMHVHHLESLEQKEKENSMLREEMHRRFENAPDSA  
KTKALQTVIEMKDSKISSMERGLRDLEEEIQMLKSNGALSTEEREEEMKQMEVYRSHSKFMKNKIGQVKQELSRK  
DTELLALQTKLETITNQFSDSKQHIEVLKESLTAKEQRAAILQTEVDALRLRLEEKETMLNKKTKQIQDMAEEKG  
TQAGEIHDLDKMLDVKERKVNVLQKKIENLQEQLRDKEKQMSLKERVKSLQADTTNTDTALTLEELAEKERT  
IERLKEQRDRDEREKQEEIDNYKKDLKDLKEKVSLLQGDLESEASLLDLKEHASSLASSGLKKDSRLKTLLEIAL  
EQKKEECLKMESQLKKAHEAALEARASPEMSDRIQHLEIREITRYKDESSKAQAEVDRLEILKEVENEKNDKDKK  
IAELESLSRQVKDQNKVANLKHKEQVEKKKSAQMLEEARREDNLNDSSQQLQVEELLMAMEKVKQELESMKA  
KLSSTQQSLAEKETHLTNLRAERRKHLEEVLEMKQEALLAAISEKDANIALLELSSSKKKTQEEVAALKREKDRI  
VQQLKQQTQNRMKLMADNYEDDHFSSHSNQTNHKPSPDQDEEEGIWA



3722/6881  
**FIGURE 3432**

TATTCTTCCAAATGGAACTGCTAATTTTTGAAGCAGAAGGTTGACAGCTTCAGTAAGATCTCAAGAGAGCGAGA  
AGACTGGAATCAGGGAACCCTACTCTGGAACTGTCAGTCCCAGGGCAGCTGGGGAGGGCTGAGGCCGACCATGCC  
CAGCCTGCTGCTGCTGCTTACGGCTGCTCTGCTGTCCAGCTGGGCTCAGCTTCTGACAGACGCCAACTCCTGGTG  
GTCATTAGCTTTGAACCCGGTGCAGAGACCCGAGATGTTTATCATCGGTGCCAGCCCGTGTGCAGTCAGCTTCC  
CGGGCTCTCCCTGGCCAGAGGAAGCTGTGCCAATTGTACCAGGAGCACATGGCCTACATAGGGGAGGGAGCCAA  
GACTGGCATCAAGGAATGCCAGCACCAGTTCCGGCAGCGCGGTGGAATTGCAGCACAGCGGACAACGCATCTGT  
CTTTGGGAGAGTCATGCAGATAGGCAGCCGAGAGACCGCTTACCCACGCGGTGAGCGCCGCGGGCGTGGTCAA  
CGCCATCAGCCGGGCCCTGCCGCGAGGGCGAGCTCTCCACCTGCGGCTGCAGCCGGACGGCGCGGCCCAAGGACCT  
GCCCGGGACTGGCTGTGGGGCGGCTGTGGGGACAACGTGGAGTACGGCTACCGCTTCGCCAAGGAGTTTGTGGA  
TGCCCGGGAGCGAGAGAAGAACTTTGCCAAAGGATCAGAGGAGCAGGGCCGGGTGCTCATGAACCTGCAAAACAA  
CGAGGCCGGTCGAGGGCTGTGTATAAGATGGCAGAGCTAGCCTGCAAATGCCACGGCGTCTCGGGGTCTGTCAG  
CCTCAAGACCTGCTGGCTGCAGCTGGCCGAGTTCCGCAAGGTGCGGGACCGGTGAAGGAGAAGTACGACAGCGC  
GGCCGCCATGCGCGTACCCGCAAGGGCCGGCTGGAGCTGGTCAACAGCCGCTTACCCAGCCCAACCCCGGAGGA  
CCTGGTCTATGTGGACCCAGCCCCGACTACTGCCTGCGCAACGAGAGCACGGGCTCCCTGGGCACGCAGGGCCG  
CCTCTGCAACAAGACCTCGGAGGGCATGGATGGCTGTGAGCTCATGTGCTGCGGGCGTGGCTACAACCAAGTTCAA  
GAGCGTGCAGGTGGAGCGCTGCCACTGCAAGTTCCACTGGTGTGCTTCGTACGGTGTAAAGTGCACGGAGAT  
CGTGGACCAGTACATCTGTAAATAGCCCGAGGGCCCTGCTCCCGCCCCCTGCACTCTGCCTCACAAGGTCTA  
TATTATATAAATCTATATAAATCTATTTTATATTTGTATAAGTAAATGGGTGGGTGCTATACAATGGAAAGATGA  
AAATGGAAAGGAAGAGCTTATTTAAGAGACGCTGGAGATCTCTGAGGAGTGGACTTTGCTGGTTCTCTCCTCTTG  
GTGGGTGGGAGACAGGGCTTTTCTCTCCCTCTGGCGAGGACTCTCAGGATGTAGGGACTTGGAAATATTTACTG  
TCTGTCCACCACGGCCTGGAGGAGGGAGGTTGTGGTTGGATGGAGGAGATGATCTTGTCTGGAAGTCTAGAGTCT  
TTGTTGGTTAGAGGACTGCCGTGTGATCCTGGCCACTAGGCCAAGAGGCCCTATGAAGGTGGCGGGAACTCAGCTT  
CAACCTCGATGTCTTCAGGGTCTTGTCCAGAAATGTAGATGGGTTCGTAAGAGGCCTGGTGTCTCTTACTCTTT  
CATCCACGTGCACTTGTGCGGCATCTGCAGTTTACAGGAACGGCTCCTTCCCTAAAATGAGAAGTCCAAGGTCAT  
CTCTGGCCCACTGACCACAGAGAGATCTGCACCTCCCGGACTTCAGGCCTGCCTTTCCAGCGAGAATTCTTCATC  
CTCCACGGTTCCTAGCTCCTACCTGAAGAGGAAAGGGGGCCATTGACCTGACATGTCAGGAAAGCCCTAAACT  
GAATGTTTGCCTGGGCTGCAGAAGCCAGGGTGCATGACCAGGCTGCGTGGACGTTATACTGTCTTCCCCACC  
CCCGGGGAGGGGAAGCTTGAGCTGCTGCTGTCACTCCTCCACCGAGGGAGGCCTCACAACCACAGGACGCTGCA  
ACGGGTACAGCTGGCGGGCCCGGCTGCTCATCATCTCTGCCCCAGGTGTACGGTTTCTCTGACATTAAATGC  
CCTTCATGG

3723/6881  
**FIGURE 3433**

MPSLLLLFTAALLSSWAQLLTDANSWWSLALNPVQRPEMFIIGAQPVCSQLPGLSPGQRKLCQLYQEHMAYIGEG  
AKTGIKECQHQRQRRWNCSTADNASVFGRVMQIGSRETAFTHAVSAAGVVNAISRACREGELSTCGCSRTARPK  
DLPRDWLWGGCGDNVEYGYRFAKEFVDAREREKNFAKGSEEQGRVLMNLQNEAGRRAVYKMADVACKCHGVSGS  
CSLKTCWLQLAEFRKVGDLKEKYDSAAAMRVTRKGRLELVNSRFTQPTPEDLVYVDPSPDYCLRNESTGSLGTQ  
GRLCNKTSEGMDGCELMCCGRGYNQFKSVQVERCHCKFHWCCFVRCKKCTEIVDQYICK

3724/6881  
**FIGURE 3434**

GACCATTAGCAGGCACCCAGGCCTGTCTTTGGCTCGGAAACGGTGGCCCCCAATGTAGCCTAGTTTGAACCTAGG  
AACTGCAGGACCAGAGAGATTCCACTGGAGCCTGATGGACGGGTGACAGAGGGAACCCTACTCTGGAAACTGTCA  
GTCCCAGGGCACTGGGGAGGGCTGAGGCCGACCATGCCCAGCCTGCTGCTGCTGTTACGGCTGCTCTGCTGTCC  
AGCTGGGCTCAGCTTCTGACAGACGCCAACTCCTGGTGGTCATTAGCTTTGAACCCGGTGCAGAGACCCGAGATG  
TTTATCATCGGTGCCCAGCCCGTGTGCAGTCAGCTTCCCGGGCTCTCCCCTGGCCAGAGGAAGCTGTGCCAATTG  
TACCAGGAGCACATGGCTACATAGGGGAGGGAGCCAAGACTGGCATCAAGGAATGCCAGCACCAGTTCCGGCAG  
CGGCGGTGGAATTGCAGCACAGCGGACAACGCATCTGTCTTTGGGAGAGTCATGCAGATAGGCAGCCGAGAGACC  
GCCTTCACCCACGCGGTGAGCGCCGCGGGCGTGGTCAACGCCATCAGCCGGGCTGCCGCGAGGGCGAGCTCTCC  
ACCTGCGGCTGCAGCCGGACGGCGCGGCCCAAGGACCTGCCCCGGGACTGGCTGTGGGGCGGCTGTGGGGACAAC  
GTGGAGTAGCGCTACCGCTTCGCCAAGGAGTTTGTGGATGCCCGGGAGCGAGAGAAGAACTTTGCCAAAGGATCA  
GAGGAGCAGGGCCGGGTGCTCATGAACCTGCAAAACAACGAGGCCGGTTCGAGGGCTGTGTATAAGATGGCAGAC  
GTAGCCTGCAAAATGCCACGGCGTCTCGGGTCTGACGCCCTCAAGACCTGCTGGCTGCAGCTGGCCGAGTTCCGC  
AAGGTCGGGGACCGGTGAAGGAGAAGTACGACAGCGCGGCCGCCATGCGCGTCACCCGCAAGGGCCGGCTGGAG  
CTGGTCAACAGCCGCTTACCCAGCCCACCCCGAGGACCTGGTCTATGTGGACCCAGCCCCGACTACTGCCTG  
CGCAACGAGAGCACGGGCTCCCTGGGCACGCAGGGCCGCCTCTGCAACAAGACCTCGGAGGGCATGGATGGCTGT  
GAGCTCATGTGCTGCGGGCGTGGCTACAACCAGTTCAAGAGCGTGCAGGTGGAGCGCTGCCACTGCAAGTTCCAC  
TGGTGTGCTTCGTAGGTGTAAGAAGTGCACGAGATCGTGGACCAGTACATCTGTAAATAGCCCGGAGGGCCT  
GCTCCCGCCCCCTGCCTCTGCCTCACAAAGTCTATATTATATAAATCTATATAAATCTATTTTATATTGT  
ATAAGTAAATGGGTGGGTGCTATACAATGGAAAGATGAAAATGGAAGGAAGAGCTTATTTAAGAGACGCTGGAG  
ATCTCTGAGGAGTGGACTTTGCTGGTTCTCTCCTCTTGGTGGGTGGGAGACAGGGCTTTTTCTCTCCCTCTGGCG  
AGGACTCTCAGGATGTAGGGACTTGAAATATTTACTGTCTGTCCACCACGGCCTGGAGGAGGGAGTTGTGGTT  
GGATGGAGGAGATGATCTTGTCTGGAAGTCTAGAGTCTTTGTGGTTAGAGGACTGCCTGTGATCCTGGCCACTA  
GGCCAAGAGGCCCTATGAAGGTGGCGGGAACCTCAGCTTCAACCTCGATGTCTTCAGGGTCTTGTCCAGAATGTAG  
ATGGGTTCCGTAAGAGGCCTGGTGTCTCTTACTCTTTTCATCCACGTGCACTTGTGCGGCATCTGCAGTTTACAG  
GAACGGCTCCTTCCCTAAATGAGAAGTCCAAGTTCATCTCTGCCCCAGTGACCACAGAGAGATCTGCACCTCCC  
GGACTTCAGGCCTGCCTTTCCAGCGAGAATTCCTCATCTCCACGGTTCACTAGCTCCTACCTGAAGAGGAAAGG  
GGGCCATTTGACCTGACATGTCAGGAAAGCCCTAAACTGAATGTTTGGCGCTGGGCTGCAGAAGCCAGGGTGCAT  
GACCAGGCTGCGTGGACGTTATACTGTCTTCCCCACCCCCGGGGAGGGGAAGCTTGAGCTGCTGTCTCACTCC  
TCCACCGAGGGAGGCCTCACAAACCACAGGACGCTGCAACGGGTGAGGCTGGCGGGCCCGGCGTGTCTCATCT  
CTGCCCCAGGTGTACGGTTTCTCTCTGACATTAAATGCCCTTCATGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
A

3725/6881  
**FIGURE 3435**

MPSLLLLFTAALLSSWAQLLTDANSWWSLALNPVQRPMEFIIGAQPVCSQLPGLSPGQRKLCQLYQEHMAYIGEG  
AKTGIKECQHQRQRRWNCSTADNASVFGRVMQIGSRETAFTHAVSAAGVVNAISRACREGELSTCGCSRTARPK  
DLPRDWLWGGCGDNVEYGYRFAKEFVDAREREKNFAKGSEEQGRVLMNLQNEAGRRAVYKMADVACKCHGVSGS  
CSLKTCWLQLAEFRKVGDLKEKYDSAAAMRVTRKGRLELVNSRFTQPTPEDLVYVDPSPDYCLRNESTGSLGTQ  
GRLCNKTSEGMDGCELMCCGRGYNQFKSVQVERCHCKFWCCFVRCKKCTEIVDQYICK

3726/6881  
**FIGURE 3436**

GTATGGGAAGGTCGGTGGCGAGTGATCCCTCATGATGTACTACCAGACTGGCTCAAGGATAATGACTTCCTCTTG  
CATGGACACCGGCTCCTATGCCTTCTTTCCGGGCTGTTTTAAGAGCATTTCAGAATACACACAGAAACAGGC  
AACATTTGGACACATCTCTTAGGTTGTGTATTCTTCTGTGCCTGGGGATCTTTTATATGTTTTCGCCCAAATATC  
TCCTTTGTGGCCCTCTGCAAGAGAAGGTGGTCTTTGGATTATTTTCTTAGGAGCCATTCTCTGCCTTCTTTT  
TCATGGCTCTTCCACACAGTCTACTGCCACTCAGAGGGGCTCTCTGGCTCTTCTCTAAACTGGATTACTCTGGT  
ATTGCTCTTCTGATTATGGGAAGTTTTGTTCTTGGCTTTATTATTCTTTCTACTGTAATCCACAACCTTGCTTC  
ATCTACTTGATTGTCTATCTGTGTGCTGGGCATTGCAGCCATTATAGTCTCCAGTGGGACATGTTTGCCACCCCT  
CAGTATCGGGAGTAAGAGCAGGAGTGTTCCTGGGCTAGGCCTGAGTGAATCATTCTACCTTGCACTATGTC  
ATCTCGGAGGGTTTCCTTAAGGCCGCCACCATAGGCGAGATAGGCTGGTTGATGCTGATGGCCAGCCTCTACATC  
ACAGGAGCTGCCCTGTATGCTGCCCGGATCCCCGAACGCTTTTTCCCTGGCAAATGTGACATCTGGTTTCACTCT  
CATCAGCTGTTTCATATCTTTGTGGTTGCTGGAGCTTTGTTCACTTCCATGGTGTCTCAAACCTCCAGGAGTTT  
CGTTTCATGATCGGCGGGGCTGCAGTGAAGAGGATGCACTGTGATACCTACCAGTCTCCAGGGACTATGACCCCT  
AAACCAGGGCCTGCGGCACTTGCGGGCTCCTGCTGGCTACTGATGCCAGTACCAGAGGAGCCCCAAAACCTTG  
ACAGCCTCGTGGGCTTTGTGACGGCCAGTGGCTCTGCGTGGTACATGACTGAGAAGAGAAAAACAAAATAAAT  
CATACCTCAAAGGATGGAGTGCATCAATTGGGAGAAAAGGAGACATAGCCCAAACCTGGCTTATTCTTGGGATC  
TACTGATTGCGGGCTCTGCAAGACCCTTGGCAAACCTGGCTCTGATCCATATCATATTTATTGTAGAAGATGGC  
GAAACAGTTTAGCTGGTGGTTCTTTCTCTCCCTTTCTCTCTCTATGACAATAATACAAACCAATTTAAGTGA  
ACATTTATATCCGATAAGGGGTGGGAGTGTGATTTTAAATGCTCTTTTGGGAGAACAAAGAAATTAATGTAAATA  
AGATTTCTAACTGTTTAAATAAGACTTTATATAAATGTTTAAACATAGGGGTAAGGGAGGGAGGAGAATTTT  
GTATAGAATGAAACATGCAAGTACCACACACTGTTTGAATTTGCACAAAAGTGACTGTAGGATCAGGTGATAG  
CCCCGGAATGTACAGTGTCTTGGTGCACCAAGATGCCTTCTAAAGGCTGACATACCTTGGACCCTAATGGGGCAG  
AGAGTATAGCCCTAGCCAGTGGTGACATGACCACTCCCTTTGGGAGGCCTGAGGTAGAGGGGAGTGGTATGTGT  
TTTCTCAGTGAAGCAGCAGATGAGTGGGTGACAGGATGTTAGATAAAGGCTCTAGTTAGGGTGTCAATTGTCAAT  
TGAGAGACTGACACACTCTAGCAGCTGGTAAAGGGGTGCTGGAGGCCATGGAGGAGCTCTAGAAACATTAGCAT  
GGGCTGATCTGATTACTTCTGGCATCCGCTCACTTTTATGGGAAGTCTTATTAGAGGGATGGGACAGTTTTTC  
ATATCCTTGCTGTGGAGCTCTGGAACACTCTCTAAATTTCCCTCTATTAAAAATCACTGCCCTAACTACACTTCC  
TCCTTGAGGGAATAGAAATGGACCTTTCTCTGACATAGTTCTTGGCATGGGAGCCAGCCACAAATGAGATTCTGA  
CGTGTCCAGGTTTCTCCTGAGCTCATCTACATAGATTGGTAGACCTTTCCTTTGGATTAGGAAAGATGAGTTTTA  
CCTCTGGTACACTGTCTTGGTAAGCCTGGATGTGACAGACACCTCGGCTCTCCTTGAATAAGAAAGCCAGCAGAA  
CTCTTAAAGCCAGTTGTAGTACGGAGTTGTGACACTCACTGAACCTCACTTTACAGGGATAAGAGTGGTGTGGC  
ATTTTAAATACAATGGTATGTTATTGCCAGGGAGTGAGGTACAAGACGATGGCTCATGTACAGGCCCTACCTGAT  
ACGGTGTGACAGAAAGTGGTGGGAAAGGATCTGGTTCATGGAATTTCTGATCTTGGCCCATAGGTGAACCACCAA  
AATAGTGTCTGAGTCTTAGGTTACTGTCTATCAAAGACTTGGGATGACTCCATTATATCCTGGGGTTGTGGGTATT  
AGAATAAATATGGAGGTCTGAGCATGGGACTGGCGTCTCAGTAGGTGTTTGGGAATATGGGAAGGGTCTCC  
TATTTATTCAATAGAGTTTTCTCAGTTATTTTCTCCCTTGCCCTTGCAATCTCCAGCAAAGGTGGGATCTAGG  
AAGAAAGAATCCAGTGTAGAAGTTGAGAAGAAGTTGAACGTTTTGGTTCTGGATAAGGTCACTGTCTAGGTGCT  
AGGTGGACCGAGCAAAAGACTCAGTGGATGAAGTGGTGCAGTGCCTGACAGAATAAAGAACAGTATTAATCCCTT  
TGAGAAAGCATAGTCCAGCAGGACAGTGGCCATTGGACAGAAGCCCACTTAGTTTCTTGGGAGCAACAGCAGT  
ATCAGAAGCCAGACTTGCTCTTCGGTCACTGCACTTTGGGATACAGCGTATAGGTGCAGCCCTGTACAAACACCAA  
CAGAAGTAGCAGCCTCTGGGTGCAGTACCCACACCCCAAGCTGGAAGGATCTGGTTCAACATAGCACAAACCC  
TTAGGAAAAATGAAATTAACATCACTGATGTGTAATCCAGTAAATCTCCCTTTTTCGGGTGTGTATGTGGGCAT  
GTGCCCATTCTATGTGTGTGTCTACGTGCAGCTCACTACCAACAGCCTCATGTGCACTTGACCTGACAGTGCTC  
GCTGAGAAGTCTCACCAGGTTGGCGCTGAATGCCTTACTCTCAGCAGTCAGAGGCTTGCTTGCTCTGTGCAGAT  
TTTTAATTTCTTTTTTGGCCCTAGGCTGGTTGGGACCTCTACAGCTTCACTTTTACCATTAAATAGTGGCCT  
TTTTCAGTATTTTCCCTCTTCCCTTTATAAATTATGCTAAAGCCACAAAGCACATTTTGGGGATCATAGAAGG  
TTGGGGTTCCAGAAAGGCATCTGIGTGATGGTTCCATTGATGTGGGATTTCCCTACTTGCTGTATTCTCAGTTTC  
TAATAAAAAGAACCAAATG

3727/6881  
**FIGURE 3437**

TGCGAGGCAGCTCGCTCGTTCTGCGATCTATTGAGAGTGGCTTCCAAGAGCCCCGTGCCTATGTCTGGGAGGGAG  
GGAAGATGGCAGCCGTGGCGGCAGGCGGCCTGGTGGGAAAGGGCGCGACATCAGCCTAGCGGCCCTGCAGCGCC  
ACGACCCCTATATCAACCGCATCGTGGACGTGGCCAGCCAGGTGGCTCTGTACACCTTCGGCCATCGGGCCAACG  
AGTGGGAGAAAAC TGATGTGGAAGGAACCTTATTTGTTTATACAAGGTCTGCTTCTCCAAAGCATGGATTACCA  
TTATGAATAGGCTGAGCATGGAATAAGGACAGAACCTATTACTAAAGACTTGGATTTCCAACCTCCAGGACCCCT  
TCCTTCTCTACAGAAATGCCAGATTGTCCATCTATGGAATTTGGTTTTATGATAAGGAAGAATGCCAAAGAATTG  
CAGAGCTTATGAAAAACCTAACTCAGTATGAACAGTTGAAAGCCCATCAGGGAACCTGGAGCAGGAATTTCCCCAG  
TGATCCTCAATTCAGGAGAGGGCAAAGAAGTAGACATTTTACGAATGCTCATCAAGGCCAAAGACGAATACACAA  
AGTGTAACCTGTTCTGAGCCAAAAAGATAACCAGTTCTCTGCCATCTATGACAATCCAAATCTCATCAAAC  
CAATTCAGTGAAACCCAGTGAAACCCAGCAACAGCGTATACCTCAGCCCAACCAGACCTTAGACCCCTGAACCCC  
AACACTTATCCTTGACAGCTCTGTTTGGGAAGCAGGACAAAGCTACATGTGAGGAACTGTGGAGCCTCCGCAGA  
CTCTCCACCAGCAGCAGCAGCAGCAGCAGCAGCAAGAGAAGCTTCCAATTAGGCAGGGGGTGTACGCTCCC  
TGTCCTATGAGGAACCCAGAAGACACTACCCCCATTGAGAAGCAGCTCTGTCCAGCCATTGAGAACTCATGG  
TCAGGAGCGCAGACCTCCACCCATTGTGAGAGCTGCCTGAAAACCGGCCTTGTGAAAATGGCAGTACCCATTCTG  
CGGGAGAAATTTTTTACAGGACCTGTCCAGCCAGGGTCTCCTCACAACATTGGAACCTTCTCGTGGTGTACAAAATG  
CTTCCAGAACTCAGAACCTGTTTCGAGAACTTCAGAGTACCCAGGGGCAGCAAACAAGTGTGACCCTAGTACAC  
CAGCACCTGCCAGCTCAGCTGCCCTGAACCGCAGCAGAGCTCCCACTTCTGTACCCCTGTGGCTCCAGGAAAGG  
GTCTGGCTCAGCCACCACAGGCCTATTTCAATGGCTCCCTCCACCTCAGACAGTAGGACATCAGGCTCATGGAA  
GAGAACAGTCCACACTCCCAAGACAAACACTCCCCATCTCTGGTAGTCAGACTGGCAGCTCTGGAGTGATCTCCC  
CTCAAGAGTTACTGAAGAAGCTTCAGATTGTACAGCAGGAGCAGCAGCTGCATGCCTCTAACCGGCCAGCCTTGG  
CCGCTAAGTTTCTGTGCTCGCTCAGAGCTCTGGAACAGGGAAACCCCTTGAATCCTGGATCAACAGACACCCA  
ACACAGAACAGCAGACTCCTCTTTTCCAGGTCTCTCACCTCAGCGCATCCCTGCTACAGCAGCTCCGTCTCTGC  
TTATGTCCCCCATGGTGTTCGCACAACCCACCTCCGTCCCGCCAAAGGAAAGGGAGAGCGGCCTCTTGCTGTGG  
GAGGCCAGGAGCCACCTGTGCTGCCACCAGCCTCCTCCTGCCCATACAGAGCCCGGAGCCCTCCGTGATACCA  
GCAGCCCACTACCAAGCTCCAGCTCCAGGAGGCACTGCTGTACCTCATTGAGAAATGATGACAACCTCTTAAATA  
TAATCTATGAAGCCTATCTCTTCAGCATGACTCAAGCAGCCATGAAAAAGACTATGTGACAGCAAGGCCTTTTAA  
AACTGATTTTCAAGGTCTTCTAGAACTCCGGCACAAGGTTCTTTTATGTTGAGTGTGTTTCTTCAATGTTTC  
TGCCTTTTTTAAAAAAAAGTATGTGTAATATGAAGTAAATGTTTCAGACTTTTTTTTAT

3728/6881  
**FIGURE 3438**

MAAVAAGGLVGKGRDISLAALQRHDPYINRIVDVASQVALYTFGHRANEWEKTDVEGTLFVYTRSASPKHGFTIM  
NRLSMENRTEPITKDLDLQDPFLLYRNARLSIYGIWFYDKEECQRIAEMLMKNLTQYEQLKAHQGTGAGISPMI  
LNSGEGKEVDILRMLIKAKDEYTKCKTCSEPKKITSSSAIYDNPNLIKPIPVKPSNQQRIPQPNQTLDPQH  
LSLTALFGKQDKATCQETVEPPQTLHQQQQQQQQQEKLPVIRQGVVRSLSYEPRRHSPPIEQQLCPAIQKLMVR  
SADLHPLSELNRPENPCENGSTHSAGEFFTGVPVQPGSPHNIGTSRGVQNASRTQNLFEKLQSTPGAANKCDPSTPA  
PASSAALNRSRAPTSVTPVAPGKGLAQPPQAYFNGSLPPQTVGHQAHGREQSTLPRQTLPISGSQTGSSGVISPQ  
ELLKKLQIVQQEQQLHASNRPALAAKFPVLAQSSGTGKPLESWINKTPNTEQQTPLFQVISQRIPTAAPSLLM  
SPMVFAQPTSVPPKERESGLLPVGGQEPAAATSLLLPIQSPEPSVITSSPLTKLQLEALLYLIQNDNDFLNII  
YEAYLFSMTQAAMKKT

3729/6881  
**FIGURE 3439**

GCCGCGTGACAGAGGTGCTCAAGCCTCCTCGCGGTCCGCAGTCAGTGCCGCCGCGCCCGGCCCTCCCGCACGCCCCG  
CAGGTAGCGCCCCCGCCCGCGGCCAGAGTGCGCTCGCGCCGGCACCAGCTCCCGGATAAACGGCGCGCCGCGCG  
GAGATGACAGCCGAGGAGATGAAGGCGACCGAGAGCGGGCGCAGTCGGCGCCGCTGCCCATGGAGGGAGTGGAC  
ATCAGCCCCAAACAGGACGAAGGCGTGCTGAAGGTCATCAAGAGAGAGGGGCACAGGTACAGAGATGCCCATGATT  
GGGGACCGAGTCTTTGTCCACTACACTGGCTGGCTATTAGATGGCACAAAGTTTGACTCCAGTCTGGATCGCAAG  
GACAAATTCTCCTTTGACCTGGGAAAAGGGGAGGTTCATCAAGGCTTGGGACATTGCCATAGCCACCATGAAGGTG  
GGGGAGGTGTGCCACATCACCTGCAAACCAGAAATATGCCTACGGTTCAGCAGGCAGTCTCTCAAAGATTCCCCC  
AATGCCACGCTTGATTGAGGTGGAGTTGTTTGAAGTTTAAAGGAGAAGATCTGACGGAAGAGGAAGATGGCGGA  
ATCATTGCGAGAATACAGACTCGCGGTGAAGGCTATGCTAAGCCCAATGAGGGTGCTATCGTGGAGGTTGCACTG  
GAAGGGTACTACAAGGACAAGCTCTTTGACCAGCGGGAGCTCCGCTTTGAGATTGGCGAGGGGGAGAACCTGGAT  
CTGCCTTATGGTCTGGAGAGGGCCATTGAGCGCATGGAGAAAGGAGAACATTCCATCGTGTACCTCAAGCCCAGC  
TATGCTTTTGGCAGTGTTGGGAAGGAAAAGTTCCAAATCCCACCAAATGCTGAGCTGAAATATGAATTACACCTC  
AAGAGTTTGGAAAAGGCCAAGGAGTCTTGGGAGATGAATTCAGAAGAGAAGCTGGAACAGAGACCCATAGTGAAA  
GAGCGGGGCTGTGTACTTCAAGGAAGGTAATAACAAGCAAGCTTTACTACAGTATAAGAAGATCGTGTCTTGG  
CTGGAATATGAGTCTAGTTTTTCCAATGAGGAAGCACAGAAAGCACAGGCCCTTCGACTGGCCTCTCACCTCAAC  
CTGGCCATGTGTCATCTGAACTACAGGCCCTTCTCTGCTGCCATTGAAAGCTGTAACAAGGCCCTAGAACTGGAC  
AGCAACAACGAGAAGGGCCTCTTCGCGCGGGGAGAGGCCACCTGGCCGTGAATGACTTTGAACTGGCACGGGCT  
GATTTCCAGAAGGTCTGACGCTCTACCCCAACAACAAAGCCGCCAAGACCCAGCTGGCTGTGTGCCAGCAGCGG  
ATCCGAAGGCAGCTTGCCCGGGAGAAGAAGCTCTATGCCAATATGTTTGAAGGCTGGCTGAGGAGGAGAACAAG  
GCCAAGGCAGAGGCTTCCTCAGGAGACCATCCCACTGACACAGAGATGAAGGAGGAGCAGAAGAGCAACACGGCA  
GGGAGCCAGTCTCAGGTGGAGACAGAAGCATAGCCCCCTCTCCACCAGCCCTACTCCTGCGGCTGCCTGCCCCCCA  
GTCTCCCCACTCCACCCTGTTAGTTTTGTAAAACTGAAGAATTTTGAAGTGAATTAGACCTTTATTTTTCTATCT  
GGTTGGATGGTGGCTTAGGGGAAGGGGAAAGGTGTAGGCTGGGGGATTGAGGTGGGGAATCATTTTAGCTGGT  
GTCAGCCCCCTCTCCCTTCCTCCATTGCACATGAACATATGTCCATCCATATATATTATCAGAATGTTAATTTA  
TTTTGCTCCCTCTGTAGGTCCATTTTCTAAGGGTAGAAGAGGCAAGTGGTAGGGATGAGGTCTGATAAGAACC  
AGGGTGGAGAGGGAGACTCCTGGGCAGCCGTTTTCTCATCCTTTCCCTCTCCCAGTCCATTTCCAAATGTGGCC  
TCCATGTGGGTGCTAGGGACATGGGAAAAACCACTGCTATGCCATTTCTTCTCTGTTCCCTTCCTACCCCCG  
ACGGTGTGGCTGATGATGTCTTCTGGTGTGATGGTGACACCCCTGTTCCTGTTCTGGTATTTCCCTGTGACG  
TTTCCCTCTCGGCCAGGTGTGTGCCAAAATCCCTCAGCCTCTTCTCTGCACGTTGCTGAAGGTCCAGGCTTG  
CCTCAAGTTCCATGCTTGAGCAATAAAGTGGAACAATAAAACCTGGGTGTCAGACAAAAAAAAAAAAAAAAAAAA

A



3730/6881

**FIGURE 3440**

MTAEEMKATESGAQSAPLPMEGVDISPQDEGVLEKVIKREGTGTEMPMIGDRVFVHYTGWLLDGTKFDSSLDRKD  
KFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGI  
IRRIQTRGEGYAKPNEGAIIVEVALEGGYKDKLFDQRELRFEGEGENLDLPYGLERAIQRMEKGEHSIVYLKPSY  
AFGSVGKEKFQIPPNAELKYELHLKSFEKAKESWEMNSEEKLEQSTIVKERGTVYFKEGKYKQALLQYKKIVSWL  
EYESSFSNEEAQKAQALRLASHNLAMCHLKLQAFSAAESCNKALELDSNNEKGLFRERGEAHLAVNDFELARAD  
FQKVLQLYPNNKAAKTQLAVCQQRIRQLAREKKLYANMFERLAEENKAKAEASSGDHPTDTEMKEEQKSNTAG  
SQSQVETEA

3731/6881  
**FIGURE 3441**

GCGGAGCTGCCAGCCGCGGGCCGCCCTCGTTGGTGGCGGTGCCAGGGCTCGCCACCCGGGCGGTGGAACACGGGC  
CAGGACGGGGAGCGACTCCCCACAGTGCTTTCTGGCCCTTCGGCCCTTGTGCGACGCAGGCGCGACAGGGTTCC  
GGCGCCCTCCCGGGGTCCCCTGCCGACGCGGGGACCCAGCGAGGTCCCCACTCGCCGCGGGCGCCCCCTCCCTC  
GGCCCCGGGGAGGCCGGGCGGGGGCATGCCGGGAGCTGTAGTCCCCCTCCCCCTCCGCCGCTCCCGGAGCCAG  
GGCTGCGGGGTGTGGGGCGGGGAGGAGGCGCTCTGCTGTGGAGCCTGCCGCCGAGTGACCGCTCGACTACAAATA  
GCCTGGGGAGCTGCGGGGAGGGCATCTTGACCTGGGCCAGGACAACCTGCCTTGGGTCCGAGCAGGTTCCAGGGA  
GAATCAGAGATGGTGAATTCCCAGCCTGCGTCTTATGCCTTCTCCCCATCCGCTGCTGCGTCTCATCCTGGCTT  
CCCACCGCTGAGCTCCGCGTGTGCGGCACCCACCTCAGGGGGCCTTTACCTGGTCCAGAAGTGCATCTGTCTTG  
CACCAGATTATTGGGGACCTCAAGCGTCTGCTCCAGCGGCTCTCCTGTGGCATGTGACTTCCCCTTCTCGCTCCA  
GCGTCTGCCGTTTTCTACGAGATTGTTATTCCAGGTCATCAAGAGAGAGGGCACAGGTACAGAGATGCCCATGA  
TTGGGGACCGAGTCTTTGTCCA

3732/6881  
**FIGURE 3442**

GTCCGACGGGGTTTCAGGGAATATTTACTGGGCCTCTCCGCTCCCTCTGCTCTTGGAGGTGCCATGAGGTTCAGT  
TAGCTACGTGCAGCGCGTGGCGCTGGAGTTCAGCGGGAGCCTCTTCCCGCACGCAATCTGCCTCGGAGACGTTGA  
TAACGATACGTTAAATGAACTGGTGGTGGGAGACACCAGCGGGAAGGTGTCTGTGTATAAAAAATGATGACAGTCG  
GCCATGGCTCACCTGTTCTCGCCAGGGAATGCTGACTTGCGCTGGGGTGGAGACGTGTGTAATAAAGGAAAGAA  
CCTGTTGGTGGCAGTGAGTGCTGAAGGCTGGTTTCATTTGTTTGACCTGACACCTGCCAAGGTGTTGGATGCTTC  
TGGGCACCACGAGACACTAATCGGAGAGGAGCAGCGTCCAGTCTTCAAGCAGCACATCCCTGCCAACACCAAGGT  
CATGCTGATCAGCGACATCGATGGAGATGGGTGTCGTGAGCTGGTGGTGGGCTACACAGACCGTGTGGTGGCAGC  
TTTCCGCTGGGAGGAGCTAGGTGAGGGTCTGAACATCTGACAGGGCAGCTGGTGTCCCTCAAGAAATGGATGCT  
GGAGGGTCAGGTGGACAGCCTCTCAGTGACTCTGGGGCCACTGGGTCTTCCTGAAGTGTGGTGTCTCAGCCAGG  
TTGTGCGTATGCAATTCTA<sup>1</sup>CTGTGTACCTGGAAAAAGGACACTGGGTCCCTCTGCCTCTGAAGGGCCACGGA  
TGGTAGTAGGGAGACCCAGCTGCCGAGACGTGGTGTGCACCAGACATCTGGCCGTATCCACAACAAGAAATGT  
CTCCACTCACCTAATTGGCAACATCAAACAAGGCCACGGCACTGAGAGTAGTGGCTCTGGCCTCTTTGCCCTGTG  
CACCTGGATGGGACACTGAAGCTCATGGAAGAAATGGAAGAAGCAGACAAGCTGCTGTGGTCAGTGCAGGTGGA  
TCACCAGCTCTTTGCCCTGGAGAACTGGATGTCACCGGCAACGGGCATGAGGAGGTAGTTGCATGCGCCTGGGA  
TGGACAGACATATATCATTGATCACAACCGCACCGTCTCGCTTCCAAGTGGATGAAAAATATCCGTGCCTTCTG  
TGCGGGCCTGTACGCTGCAAAGAGGGCCGCAACAGCCCTGCCTCGTATATGTCACTTTCAACCAGAAGATCTA  
TGTGTACTGGGAGGTGCAGCTGGAGCGGATGGAGTCTACCAATCTGGTGAACTGCTGGAGACCAAGCCGGAGTA  
CCACAGCCTGCTGCAGGAGCTGGGCGTGGATCCTGACGACCTCCCTGTGACTCGTGGCCTGCTTCACCAACGCT  
CTACCATCCAGACCAGCCACCACAGTGTGCTCCCTCAAGCCTCCAGGATCCCACTAGCTGTACTTGCTCATAG  
CTGGTGAAGGATTCTTCTGAACCCCCACCCTACCCCTTAAAGGTATCTGTGGTATTGGCAGGATAGGGAATATGC  
ATTACAGAAATGCAGGATTGACTCTGGGCATGAAAGATGGCAGCAGCCCTAGGGTGACCGTGAAGTATAGACCT  
CGCAGTCTTTTCGGTGAAGAAGAGACAAGTTGACCCTCTGCCCATTTTCTTATGGACCTCACCCATCATGCCAG  
CAGGGTCATAGGACCCTGGCCTTGTTCCAAATCATCTGGGACATGACCCACTCCCCACTGTCACTGTGTTGAAAA  
CAGAGACTGTTTGTGTGGCCCCAACACCCATAAGGAAACCAGGCTTTAGGCCAGGGGAGCAGTGGAGGTAAGG  
GCTCCACCCCATCTTAAGCTCTGTCTTCCGTGGCACAATTTCAAGTTCTTGACGTTAGTAATTGTTAAAGGAATG  
GCAAACTGTTTGTGTTTGAAGGATCTTTCTACAGTCTGGTCTTACCCATGTTCTTAGCAACCCTGAGATGATTTT  
CTTCCATTTACCAAAGCAGCCGGGTCAGTGCCTTCTCAGTTGCCGTATTCTTCAGGTATTAGTCAGCTTCAGAA  
GCCCTGCTCCCATTTTTCCACCCACCCATTCCTCCATAAAACAGCTTATTGTCTCCAAGACAATAGACATTTAAA  
ATGTGATGCGGGTTTATGATCCAGACCACAATCAGAATTATATCTTGGGTCAATT

3733/6881

**FIGURE 3443**

MRSVSYVQRVALEFSGSLFPHAICLGDVDNDTLNELVVGDTSGKVSVKNDSDRPWLTCSCQGMLTCAGVGDCN  
KGKNLLVAVSAEGWFHLFDLTPAKVLDASGHHETLIGEEQRPVFKQHIPANTKVMLISDIDGDGCRELVVGYTDR  
VVRAFRWEELGEGPEHLTGQLVSLKKWMLEGQVDSLVTLGPLGLPELMVSQPGCAYAILLCTWKKDTGSPPASE  
GPTDGSRETPAARDVVLHQTSGRIHNKNVSTHLIGNIKQGHGTESSGSLFALCTLDGTLKLMEEMEEADKLLWS  
VQVDHQLFALEKLDVTGNGHEEVVACAWDGQTYIIDHNRTVVRFQVDENIRAF CAGLYACKEGRNSPCLVYVTFN  
QKIYVYWEVQLERMESTNLVKLLET KPEYHSL LQELGVDPDDL PVTRALLHQTLYHPDQPPQCAPSSLQDPT

3734/6881  
**FIGURE 3444**

CGGCGGCGACTGCAGTCTGGAGGGTCCACACTTGTGATTCTCAATGGAGAGTGAAAACGCAGATTCTAATGAAA  
GCTAGCCCCCGTCGGCCACTGATTCTCAAAAGACGGAGGCTGCCCTTCTGTTCAAAATGCCCCAAGTGAAACA  
TCAGAGGAGGAACCTAAGAGATCCCCTGCCCAACAGGAGTCTAATCAAGCAGAGGCCTCCAAGGAAGTGGCGGAG  
TCCAACCTCTTGCAAGTTTCCAGCTGGGATCAAGATTATTAACCACCCCACCATGCCCAACACGCAAGTAGTGGCC  
ATCCCCAACAAATGCTAATATTACAGCATCATCACAGCACTGACTGCCAAGGGAAAAGAGAGTGGCAGTAGTGGG  
CCCCAACAAATTCATCCTCATCAGCTGTGGGGGAGCCCCAACTCAGCCTCCAGGACTCCGGCCTCAAACCCAAACC  
AGCTATGATGCCAAAAGGACAGAAGTGACCTGGAGACCTTGGGACCAAAACCTGCAGCTAGGGATGTGAATCTT  
CCTAGACCACCTGGAGCCCTTTGCGAGCAGAAACGGGAGACCTGTGCAGATGGTGAGGCAGCAGGCTGCACTATC  
AACAATAGCCTATCCAACATCCAGTGGCTTCGAAAGATGAGTTCTGATGGACTGGGCTCCCGCAGCATCAAGCAA  
GAGATGGAGGAAAAGGAGAATTGTACCTGGAGCAGCGACAGGTTAAGGTTGAGGAGCCTTCGAGACCATCAGCG  
TCCTGGCAGAACTCTGTGTCTGAGCGGCCACCCTACTCTTACATGGCCATGATACAATTCGCCATCAACAGCACT  
GAGAGGAAGCGCATGACTTTGAAAGACATCTATACGTGGATTGAGGACCACTTTCCCTACTTTAAGCACATTGCC  
AAGCCAGGCTGGAAGAATCCATCCGCCACAACCTTTCCCTGCACGACATGTTTGTCCGGGAGACGCTGCCAAT  
GGCAAGGTCTCCTTCTGGACCATTACCCCACTGCCAACCGCTACTTGACATTGGACCAGGTGTTTAAGCCACTG  
GACCCAGGGTCTCCACAATTGCCCGAGCACTTGAATCACAGCAGAAACGACCGAATCCAGAGCTCCGCCGGAAC  
ATGACCATCAAAACCGAATCCCCCTGGGCGCACGGCGGAAGATGAAGCCACTGCTACCACGGGTGAGCTCATAC  
CTGGTACCTATCCAGTTCCCGGTGAACCACTGCTGCTGTGAGCCCTCGGTGAAGGTGCCATTGCCCTTGCGG  
GCTTCCCTCATGAGCTCAGAGCTTGCCCGCCATAGCAAGCGAGTCCGCATTGCCCCAAGGTGCTGTAGCTGAG  
GAGGGGATAGCTCCTCTTTCTTCTGCAGGACCAGGGAAAGAGGAGAACTCCTGTTTGAGAGAAGGGTTTCTCCT  
TTGCTTCCAGTTCAGACTATCAAGGAGGAAGAAATCCAGCCTGGGGAGGAAATGCCACACTTAGCGAGACCCATC  
AAAGTGGAGAGCCCTCCCTTGAAGAGTGGCCCTCCCCGGCCCATCTTTCAAAGAGGAATCATCTCACTCCTGG  
GAGGATTCTGTCCTAATCTCCACCCCAAGACCAAGAAGTCTACAGTGGGCTTAGGTCCCCAACCCGGTGTGTC  
TCGGAAATGCTTGTGATTCAACACAGGGAGAGGAGGGAGAGGAGCCGGTCTCGGAGGAAACAGCATCTACTGCCT  
CCCTGTGTGGATGAGCCGGAGCTGCTCTTCTCAGAGGGGCCAGTACTTCCCGTGGGCCGAGAGCTCCCGTTC  
CCAGCAGACTCCTCTGACCCTGCCTCCAGCTCAGTACTCCAGGAAGTGGGAGGACCTTTTAAGACACCCATT  
AAGGAAACGCTGCCCATCTCCTCCACCCCGAGCAATCTGTCTCCCCAGAACCCCTGAATCCTGGAGGCTCAGC  
CCCCCAGCCAAAGTAGGGGGACTGGATTTAGCCAGTACAAACCTCCCAGGGTGCCTCTGACCCCTTGCCCTGAC  
CCCCTGGGGCTGATGGATCTCAGCACCCTCCCTTGCAAGTGTCCCCCCTTGAATCACCGCAAAGGCTCCTC  
AGTTTCAGAACCTTAGACCTCATCTCCGTCCCTTTGGCAACTCTTCTCCCTCAGATATAGACGTCCCCAAGCCA  
GGCTCCCCGGAGCCACAGGTTTCTGGCCTTGAGCCAATCGTTCTCTGACAGAAGGCCTGGTCTGGACACAATG  
AATGACAGCCTCAGCAAGATCCTGCTGGACATCAGCTTTCTGGCCTGGACGAGGACCCACTGGGCCCTGACAAC  
ATCAACTGGTCCAGTTTATTCTGAGCTACAGTAGAGCCCTGCCCTTGCCCTGTGCTCAAGCTGTCCACCATC  
CCGGGCACTCCAAGGCTCAGTGCACCCCAAGCCTCTGAGTGAGGACAGCAGGCAGGGACTGTTCTGCTCCTCATA  
GCTCCCTGCTGCCTGATTATGCAAAAGTAGCAGTACACCCCTAGCCACTGCTGGGACCTTGTGTTCCCCAAGAGT  
ATCTGATTCTCTGCTGTCCCTGCCAGGAGCTGAAGGGTGGGAACAACAAGGCAATGGTGAAAAGAGATTAGGA  
ACCCCCCAGCCTGTTTCCATTCTCTGCCAGCAGTCTCTTACCTTCCCTGATCTTTGCAGGGTGGTCCGTGAAA  
TAGTATAAATTTCCAAATTATCCTCTAATTATAAATGTAAGCTTATTTCTTAGATCATTATCCAGAGACTGCC  
AGAAGGTGGGTAGGATGACCTGGGGTTTCAATTGACTTCTGTTTCTTGTCTTTAGTTTGTAGAGAAGGGAAGACC  
TGCAGTGACGGTTTCTTCCAGGCTGAGGTACCTGGATCTTGGGTTCTTCACTGCAGGGACCCAGACAAGTGGAT  
CTGCTTGCCAGAGTCTTTTTGCCCCCTCCCTGCCACCTCCCCGTGTTTCCAAGTCAGCTTTCTGCAAGAAGAAA  
TCCTGGTTAAAAAGTCTTTTGTATTGGGTGAGGAGTTGAATTTGGGGTGGGAGGATGGATGCAACTGAAGCAGA  
GTGTGGGTGCCAGATGTGCGCTATTAGATGTTTCTGATAATGTCCCAATCATACCAGGGAGACTGGCATTG  
ACGAGAACTCAGGTGGAGGCTTGAGAAGGCCGAAAGGGCCCCGTGACCTGCCTGGCTTCCCTAGCTTGCCCTCAG  
CTTTGCAAGAGCCACCTAGGCCCCAGCTGACCGCATGGGTGTGAGCCAGCTTGAGAACACTAACTACTCAATA  
AAAGCGAAGGTGGACCAAAAAAAAAAAAAAAAAAAAA

3735/6881

**FIGURE 3445**

MKASPRRPLILKRRRLPLPVQNAPSETSEEEPKRSPAQQESNQAEASKEVAESNSCKFPAGIKIINHPTMPNTQV  
VAIPNNANIHSIITALTAKGKESGSSGPNKFILISCGGAPTQPPGLRPQTQTSYDAKRTEVTLETLGPKPAARDV  
NLPRPPGALCEQKRETCADGEAAGCTINNSLSNIQWLKRMSSDGLGSRSIKQEMEKENCHLEQRQVKVEEPSRP  
SASWQNSVSEPPYSYAMMIQFAINSTERKRM TLKDIYTWIEDHFPYFKHIAKPGWKNSIRHNL SLHDMFVRETS  
ANGKVSFWTIHPSANRYLTLDQVFKPLDPGSPQLPEHLESQQKRPNPELRRNMTIKTELPLGARRKMKPLLPRVS  
SYLVP IQFPVNQSLVLQPSVKVPLPLAASLMSSSELARHSKRVRIAPKVLLAEEGIAPLSSAGPGKEEKLLFGEGF  
SPLLVPQTIKEEEIQPGEEMPHLARPIKVESPPLEEWSPAPSFKEESSHSWEDSSQSPTPRPKKSYSGLRSPTR  
CVSEMLVIOHRERRERSRSRRKQHLLPPCVDEPELLFSEGPSTSRWAAELPFPADSSDPASQLSYSQEVGGPFKT  
PIKETLPISSTPSKSVLPTPESWRLTPPAKVGGLDFSPVQTSQGASDPLPDPLGLMDLSTTFLQSAPPLESPQR  
LLSSEPLDLISVPFGNSSPSDIDVPKPGSPEPQVSGLAANRSLTEGLVLDTMNDSLKILLDISFPGLDEDPLGF  
DNINWSQFIPELQ

3736/6881  
**FIGURE 3446**

CGAAGGCTGTGCGGTCTGCCAGGAGCTGCGGCCCCGTCCGGCCCCGGGCTGGCATGGGTTGGAATTGGAGCCTATC  
CCCCAACCCGAAGGCTAACAGCATCATGTGGTTACTAACTGTTCTTCATTCAACGGTTGATGCCTCCCAGAAAAA  
AACGCCGCCAGCCTTCCCAGAAAGCCCCGCTGCTGTTCCACCAACAACCACTGGAGGGCCCCAACACAGCTGTG  
CATCTACACAGCTTCCCATCACTCACACTCGACAGGTGCCAGCAAGCCCATTGACCACAGCACCATCACTTCCT  
GGGTATCACCTGATTTTGATACAGCAGCAGGAAGCTTGTTCCAGCCTACCAGAAACACCAAAACCGGGCGAGAC  
ACTCAAGTCGAAAACCTACCACCTCCAAGTTTCCACATCTAACTTTTGAGAGTCCGCAATCTTCCAGTTCAGAGA  
CATTGGGGATCCCCTTAATCCGAGAGTGCCCCAGTGAATCAGAAAAGGATGTTTCCAGAAGACCCTTAGTTCCAG  
TGCTCAGTCCCCAAAGCTGTGGGAACATGTCAGTGCAGGCACCTCAGAGCTTACCTTATGTGTTCATTCCACCTG  
ATATCCAGACCCAGAGTCATCATCTGTGAAGGAAGAACTATTCCCCAAGATCAGAAGGAAAAACAGCCTTCTAA  
GCTGCACTCTTCACACTGGCACTCCTAATAGCCCAGAGCCTGGACCTGTTCTGGTTAAAGACACCCCCGAGGACA  
AGTATGGAATAAAGGTCACATGGAGGAGACGACAGCACCTGCTTGCTTACCTCAGGGAGAGAGGGAAGCTGAGCA  
GAAGCCAATTCTTGTGAAAAGCTGACTGCCATCAGTAATCTCAATAGAAAAGAGATATGTTTTCTGGAGTCATA  
AAGGAATTCAATTCCTAGGGTTTTTGTGTTTTGTTTTGAGATGTAATATTGCTCTGTTGCCAGGCTGGAGTGCA  
GTGGTATGATCTCACCTTACTGCAACCACCCTTCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCCAGTAG  
CTGGGATTACAGGCACCAGCCACCATGCCTGGCTAATTTTTTGTATTTTGTAGATGTTGGTTTCTCCATGT  
TGGCCAGGCTGGTCTCAAAATCCTGACCTCAAGTCATCTGCTGGCCTTGACCTCACAAAGTGTGGCCAGCCGA  
GATTTGTTTTCTAAGATACTTTGTGTCATGAACAGTTCAGTTTAGTGTGTCATGAATATTCACTTCATATTTTTCT  
TGTATTAAGTGTGTTAAATTTTAAAATATCTGTAGTAAGTCTTTAAATGTATGTAAGTAAATGGCTGCAGAAA  
GTTTTTTTAGAGAATCCTGCTTCCATCAGTAATACAGCAATATTACCCCATCCACTAAAAAAAAAAAAAAAAAAAAA

A

3737/6881  
**FIGURE 3447**

MPPRKKRRQPSQKAPLLFHQQPLEGPKHSCASTQLPITHTRQVPSKPIDHSTITSWVSPDFDTAAGSLFPAYQKH  
QNRARHSSRKPTTSKFPHLTFESPQSSSSETLGIPLIRECPSESEKDVSRRPLVPVLSPOSCGNMSVQALQSLPY  
VFIPDIIQTPESSSVKEELIPQDQKENSLLSCTLHTGTPNSPEPGPVLVKDTPEDKYGIKVTWRRRQHLLAYLRE  
RGKLSRSQFLVKS



[illegible]

3739/6881  
**FIGURE 3449**

MAAAQSRVVRVLSMSRSAITAIATSVCHGPPCRQLHHALMPHGKGGRSSVSGIVATVFGATGFLGRYVNNHLGR  
MGSQVIIPYRCDKYDIMHLRPMGDLGQLLFLEWDARDKDSIRRVVQHSNVVINLIGRDWETKNFDFEDVFVKIPQ  
AIAQLSKEAGVEKFIHVSHLNANIKSSSRYLRNKAVGEKVVRDAFPEATIVKPSDIFGREDRFLNSFASMHRFGP  
IPLGSLGWKTIVKQPVYVVDVSKGIVNAVKDPDANGKSFAFVGPSRYLLFHLVKYIFAVAHRLFLPFPLPLFAYRW  
VARVFEISPFEPWITRDKVERMHITDMKLPHLPGLEDLGIQATPLELKAIEVLRHRRTYRWLSAEIEDVKPAKTV  
NI

3740/6881  
**FIGURE 3450**

CTCCCCGCTTCTCTCCGCAGAGCTCTTCTCTGAGCCTGTTGGGGGGAGGGAGGGGGGCGTGGAGGAAGTGGGGTT  
CGCGGGAGCACGAGCTGCAGCACCCTTCCGAAAGTTCAGGAGCCCTGGAAAGGAGAAGGAATAAGACGGCAGG  
AGGAAGAGAGAGAGAGGGGTAGAATGGAAGAATCTCACTTCAATTCTAACCCGTACTTCTGGCCTTCTATCCCCAC  
AGTCTCAGGTCAGATCGAGAACACAATGTTTCATCAACAAGATGAAGGATCAGCTGTTGCCAGAGAAGGGCTGTGG  
TCTGGCCCCACCTCACTACCCACCTTGCTGACAGTGCCTGCCTCAGTGTCCCTGCCCTCAGGCATCAGTATGGA  
CACAGAGTCCAAGTCAGACCAGCTGACCCACACAGCCAAGCGTCCGTTACCCAGAATATCACGGTGGTCCCTGT  
GCCGTCTACAGGACTGATGACTGCTGGAGTCTCTGTTCTCAGAGGTGGAGAAGAGAAGGGAGTCAATCAAGGGG  
TCCGGGTTTGGTAATCACGTCCCCCTCAGGCTCTCTTGTGACCACAGCATCATCAGCTCAGACCTTCCCCATTTT  
GGCTCCCATGATTGTCTCAGCTCTTCCCCCTGGCTCACAAGCCCTGCAGGTTGTCCCTGACCTCTCCAAGAAGGT  
AGCATCGACCCTAACCGAGGAAGGAGGCGGAGGTGGTGGTGGAGGTGGCAGTGTGGCTCCTAAGCCACCCCGGGG  
CCGGAAGAAGAAGCGGATGCTGGAATCAGGGCTGCCCGAGATGAATGACCCTTATGTCTCTCCCTGAGGATGA  
TGATGACCATCAGAAAGACGGCAAGACCTACAGGTGCCGGATGTGCTCACTGACATTCTACTCCAAGTCGGAGAT  
GCAGATCCACTCCAAGTCACACCCGAGACCAAGCCCCACAAGTGCCACATTGCTCCAAGACCTTCGCCAACAG  
CTCCTACCTGGCCCAGCACATCCGTATACACTCAGGGGCTAAGCCCTACAGTTGTAACCTTCTGTGAGAAATCCTT  
CCGCCAGCTCTCCACCTTCAGCAGCACACCCGGATCCACTCCAAGATGCACACGGAGACCATCAAGCCCCACAA  
GTGCCCCGACTGCTCCAAGACCTTCGCCAACACCTCCTACCTGGCCCAGCACCTCCGTATCCACTCGGGGGCCAA  
GCCCTACAACCTGTTCTACTGCCAGAAGGCCTTCCGCCAGCTCTCCACCTCCAGCAGCACACACGAATCCACAC  
TGGTGATAGACCATACAAATGTGCACACCCAGGCTGTGAGAAAGCCTTCACACAACCTCTCCAATCTGCAGTCCCA  
CAGACGGCAACACAACAAAGATAAACCTTCAAGTGCCACAACCTGTCATCGGGCGTACACGGATCGAGCCTCACT  
AGAGGTGCACCTGTCTACGCACACAGTGAAGCATGCCAAGGTGTACACCTGCATATCTGCAGTCGGGCATACAC  
ATCAGAAACATACCTTATGAAACATATGCGCAAACACAACCCGCCTGATCTTCAGCAACAGGTGCAGGCAGCAGC  
AGCAGCGGCAGCAGTGGCCCAGGCCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCCA  
GGCCCAGGCCTCCCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACC  
ACACTTCCAGTCTCCTGGGGCAGCCCCCAGGGTGGGGGTGGTGGGGACAGCAATCCCAACCTCCACCCCACTG  
TTCCTTTGACCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATCTGCCTCACTGTACCACCAGCACCAT  
CCAGGTGGAGCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTGGGAAGAGGAAGAAGTAGTCCTGGTG  
TCTTCTTTTCCAACCTCTTGGTGGGAAAAGTCTTTTCTTCTTACAGGCCTTGGCTCCATCTCCTTGGGCCTC  
TGTCACGGCTTTCCTTTCACAGGATACCATCCTTTTCTGAACTCTTCTTCAAAGGAACATCAGCCCTCCTGATT  
GCAAAGGAATACTGAGCTGATGGTGTATCCAGCAGCCTCCCCTCCCAAGCAAAGCTTCTAAAACTGGGGGTGCG  
TGCTCAAGGGAAGGATTTGCTATGACCTCATAGAAC

3741/6881

**FIGURE 3451**

CTTCAAGTGCCACAACCTGTCATCGGGCGTACACGGATGCAGCCTCACTAGAGGTGCACCTGTCTACGCACACAGT  
GAAGCATGCCAAGGTGTACACCTGCACTATCTGCAGTCGGGCATACACATCACAACAGGTGCAGGCAGCAGCAGC  
AGCGGCAGCAGTGGCCCAGGCCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCCAGGC  
CCAGGCCTCCCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACCACA  
CTTCCAGTCTCCTGGGGCAGCCCCCAGGGTGGGGGTGGTGGGGACAGCAATCCCAACCCTCCACCCCAGTGTTT  
CTTTGACCTGACCCCGTATAAGACGGCGGAGCATATAAGGACATCTGCCTCACTGTACACCACCAGCACCATCCA  
GGTGGAGCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTG

3742/6881  
**FIGURE 3452**

GGGCCGGAGTTCCTGCAGAGGGAGCGTCAAGGCCCTGTGCTGCTGTCCCTGGGGGCCAGAGGGGTTGCCCAGCAT  
GCCCCACTGGCAGGAGAGAGGGAAGTGAACCACTTGCTCCTACCAGCTTCTGAAGGCTCCAAAGTCCGGAGTGCAG  
AAAGCCAGGACCAAGAGACAGGCAGCTCACCAGGGTGGACAAATCGCCAGAGATGTGGTGCATTGTCCTGTTTTT  
ACTTTTGGCATGGGTTTATGCTGAGCCTACCATGTATGGGGAGATCCTGTCCCTAACTATCCTCAGGCATATCC  
CAGTGAGGTAGAGAAATCTTGGGACATAGAAGTTCTGAAGGGTATGGGATTCACCTCTACTTCACCCATCTGGA  
CATTGAGCTGTCAGAGAACTGTGCGTATGACTCAGTGCAGATAATCTCAGGAGACACTGAAGAAGGGAGGCTCTG  
TGGACAGAGGAGCAGTAACAATCCCCACTCTCCAATTGTGGAAGAGTTCCAAGTCCCATACAACAACTCCAGGT  
GATCTTTAAGTCAGACTTTTCCAATGAAGAGCGTTTTACGGGGTTTGCTGCATACTATGTTGCCACAGACATAAA  
TGAATGCACAGATTTTGTAGATGTCCCTGTAGCCACTTCTGCAACAATTTCAATTGGTGGTTACTTCTGCTCCTG  
CCCCCGGAATATTTCTCCATGATGACATGAAGAATTGCGGAGTTAATTGCAGTGGGGATGTATTCAGTGCCT  
GATTGGGGAGATTGCAAGTCCCAATTATCCCAAACCATATCCAGAGAACTCAAGGTGTGAATACCAGATCCGGTT  
GGAGAAAGGGTTCCAAGTGGTGGTGACCTTGGCGAGAGAAGATTTTGATGTGGAAGCAGCTGACTCAGCGGGAAA  
CTGCCCTGACAGTTTAGTTTTGTTGCAGGAGATCGGCAATTTGGTCTTACTGTGGTCATGGATTCCCTGGGCC  
TCTAAATATTGAAACCAAGAGTAATGCTCTTGATATCATCTTCCAACTGATCTAACAGGGCAAAAAAGGGCTG  
GAACTTCGCTATCATGGAGATCCAATGCCCTGCCCTAAGGAAGACACTCCCAATTCTGTTTGGGAGCCTGCGAA  
GGCAAAATATGTCTTTAGAGATGTGGTGCAGATAACCTGTCTGGATGGGTTGAAGTTGTGGAGGGACGTGTTGG  
TGCAACATCTTTCTATTGACTTGTCAAAGCAATGGAAGTGGAGTAATTCCAACTGAAATGTCAACCTGTGGA  
CTGTGGCATTCTGAATCCATTGAGAATGGTAAAGTTGAAGACCCAGAGAGCACTTTGTTTGGTCTGTCTATCCG  
CTACACTGTGAGGAGCCATATTACTACATGAAAATGGAGGAGGTGGGGAGTATCACTGTGCTGTTAACGGGAG  
CTGGGTGAATGAGGTGCTGGGCCCCGAGCTGCCGAAATGTGTCCAGTCTGTGGAGTCCCCAGAGAACCCTTTGA  
AGAAAAACAGAGGATAAATTGGAGGATCCGATGCAGATATTA AAAA ACTTCCCTGGCAAGTCTTCTTGACAACCC  
ATGGGCTGGTGGAGCGCTCATTAAATGAGTACTGGGTGCTGACGGCTGCTCATGTTGTGGAGGGAAACAGGGAGCC  
AACAATGTATGTTGGGTCCACCTCAGTGCAGACCTCAGGGCTGGCAAAATCCAAGATGCTCACTCCTGAGCATGT  
GTTTATTCATCCGGGATGGAAGCTGCTGGAAGTCCCAGAAGGACGAACCAATTTTGATAATGACATTGCACTGGT  
GCGGCTGAAAGACCCAGTGA AAATGGGACCCACCGTCTCTCCATCTGCCTACCAGGCACCTCTTCCGACTACAA  
CCTCATGGATGGGGACCTGGGACTGATCTCAGGCTGGGGCCGAACAGAGAAGAGAGATCGTGCTGTTTCGCCTCAA  
GGCGGCAAGGTTACCTGTAGCTCCTTTAAGAAAATGCAAAGAAGTGAAAGTGGAGAAACCCACAGCAGATGCAGA  
GGCCTATGTTTTCACTCCTAACATGATCTGTGCTGGAGGAGAGAAGGGCATGGATAGCTGTAAAGGGGACAGTGG  
TGGGGCCTTTGCTGTACAGGATCCCAATGACAAGACCAAATTTACGCAGCTGGCCTGGTGTCTGGGGGCCCCA  
GTGTGGGACCTATGGGCTCTACACACGGGTAAAGAACTATGTTGACTGGATAATGAAGACTATGCAGGAAAATAG  
CACCCCCGTGAGGACTTAATCCAGATACATCCACCAGCCTCTCCAAGGGTGGTGACCAATGCATTACCTTCTGT  
TCCTTATGATATTCTCATTATTTCAATCATGACTGAAAGAAGACACGAGCGAATGATTTAAATAGAACTTGATTGT  
TGAGACGCCTTGCTAGAGGTAGAGTTTGATCATAGAATTGTGCTGGTCATACATTTGTGGTCTGACTCCTTGGGG  
TCCTTTCCCGGAGTACCTATTGTAGATAACACTATGGGTGGGGCACTCCTTTCTTGCACTATTCCACAGGGATA  
CCTTAATTCCTTTGTTTCTTTACCTGTTCAAAATTCCATTACTTGATCATTCTCAGTATCCACTGTCTATGT  
ACAATAAAGGATGTTTATAAGC

3743/6881  
**FIGURE 3453**

MWCIVLFSLLAWVYAEPTMYGEILSPNYPQAYPSEVEKSWDIEVPEGYGIHLYFTHLDIELSENCAVDSVQIISG  
DTEEGRLCGQRSSNNPHSPIVEEFQVPYNKLQVIFKSDFSNEERFTGFAAYYVATDINECTDFVDVPCSHFCNNF  
IGGYFCSCPPEYFLHDDMKNGVNCSGDVFTALIGEIASPNYPKYPENSRCYQIRLEKGFQVVVTLRREDFDV  
EAADSAGNCLDSL VFVAGDRQFGPYCGHGFPGPLNIETKSNALDIIFQTDLTGQKKGWKLRYHGDPMPCPKEDTP  
NSVWEPAKAKYVFRDVVQITCLDGFVVEGRVGATSFYSTCQSNKGWSNSKLKQPVDCGIPESIEGKVEDPES  
TLFGSVIRYTCEEPYMYMENGGEYHCAGNGSWVNEVLGPELPKVPVCGVPREPFEEKQRIIGGSDADIKNFP  
WQVFFDNPWAGGALINEYWVLTAAHVVEGNREPTMYVGSTSVQTSRLAKSKMLTPEHVFHHPGWKLEVP EGRTN  
FDNDIALVRLKDPVKMGPTVSPICLPGTSSDYNLMDGDLGLISGWGRTEKRDRAVRLKAARLPVAPLRKCCEVKV  
EKPTADAEAYVFTPNMICAGGEKGMDSCKGDSGGAFVQDPNDKTKFYAAGLVSWGPQCGTYGLYTRVKNYVDWI  
MKTMQENSTPRED

3744/6881  
**FIGURE 3454**

CTCCTGAGCATGTGTTTATTTCATCCGGGATGGAAGCTGCTGGAAGTCCCAGAAGGACGAACCAATTTTGATAATG  
ACATTGCACTGGTGCGGCTGAAAGACCCAGTGAAAATGGGACCCACCGTCTCTCCCATCTGCCTACCAGGCACCT  
CTTCCGACTACAACCTCATGGATGGGGACCTGGGACTGATCTCAGGCTGGGGCCGAACAGAGAAGAGAGATCGTG  
CTGTTGCGCTCAAGGCGGCAAGGTTACCTGTAGCTCCTTTAAGTTTCACTCCTAACATGATCTGTGCTGGAGGAG  
AGAAGGGCATGGATAGCTGTAAAGGGGACAGTGGTGGGGCCTTTGCTGTACAGGATCCCAATGACAAGACCAAAT  
TCTACGCAGCTGGCCTGGTGTCTGGGGGCCCCAGTGTGGGACCTATGGGCTCTACACACGGGTAAAGAACTATG  
TTGACTGGATAATGAAGACTATGCAGGAAAATAGCACCCCCCGTGAGGACTAATCCAGATACATCCCACCAGCCT  
CTCCAAGGGTGGTGACCAATGCATTACCTTCTGTTTCCTTATGATATTCTCATTATTTTCATCATGACTGAAAGAAG  
ACACGAGCGAATGATTTAAATAGAACTTGATTGTTGAGACGCCTTG

3745/6881  
**FIGURE 3455**

GCAGTACCTAAGCCGGAGCGGGGTAGAGGCGGGCCGGCACCCCCTTCTGACCTCCAGTGCCGCCGGCCTCAAGAT  
CAGACATGGGCCAGAACTTGAAGGACTTGGCGGGACGGCTGCCCGCCGGGCCCCGGGGCATGGGCACGGCCCTGA  
AGCTGTTGCTGGGGGCCGGCGCCGTGGCCTACGGTGTGCGCGAATCTGTGTTACCGTGGAAGGCGGGCACAGAG  
CCATCTTCTTCAATCGGATCGGTGGAGTGCAGCAGGACACTATCCTGGCCGAGGGCCTTCACTTCAGGATCCCTT  
GGTTCCAGTACCCCAATTATCTATGACATTCGGGCCAGACCTCGAAAAATCTCCTCCCTACAGGCTCCAAAGACC  
TACAGATGGTGAATATCTCCCTGCGAGTGTGTTCTCGACCCAATGCTCAGGAGCTTCCTAGCATGTACCAGCGCC  
TAGGGCTGGACTACGAGGAACGAGTGTGCGGTCCATTGTCAACGAGGTGCTCAAGAGTGTGGTGGCCAAGTTCA  
ATGCCCTCACAGCTGATCAGCCAGCGGGCCAGGTATCCCTGTTGATCCGCCGGGAGCTGACAGAGAGGGCCAAGG  
ACTTCAGCCTCATCCTGGATGATGTGGCCATCACAGAGCTGAGCTTTAGCCGAGAGTACACAGCTGCTGTAGAAG  
CCAAACAAGTGGCCAGCAGGAGGCCAGCGGGCCCAATTCTTGGTAGAAAAAGCAAAGCAGGAACAGCGGCAGA  
AAATTGTGCAGGCCGAGGGTGAGGCCGAGGCTGCCAAGATGCTTGGAGAAGCACTGAGCAAGAACCCTGGCTACA  
TCAAACCTCGCAAGATTCGAGCAGCCCAGAATATCTCCAAGACGATCGCCACATCACAGAATCGTATCTATCTCA  
CAGCTGACAACCTTGTGCTGAACCTACAGGATGAAAGTTTCACCAGGGGAAGTGACAGCCTCATCAAGGGTAAGA  
AATGAGCCTAGTCACCAAGAACTCCACCCCCAGAGGAAGTGGATCTGCTTCTCCAGTTTTTGAGGAGCCAGCCAG  
GGGTCCAGCACAGCCCTACCCCGCCCCAGTATCATGCGATGGTCCCCCACACCGGTTCCCTGAACCCCTCTTGGA  
TTAAGGAAGACTGAAGACTAGCCCTTTTCTGGGGAATTACTTTCCTCCTCCCTGTGTTAACTGGGGCTGTTGGG  
GACAGTGCGTGATTTCTCAGTGATTTCTTACAGTGTGTTCCCTCCCTCAAGGCTGGGAGGAGATAAACACCAAC  
CCAGGAATTCTCAATAAATTTTATTACTTAACCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



3746/6881  
**FIGURE 3456**

MAQNLKDLAGRLPAGPRGMGTALKLLLGAGAVAYGVRESVFTVEGGHRAIFFNRIGGVQQDTILAEGLHFRI  
PW  
QYPIIYDIRARPRKISSPTGSKDLQMVNISLRVLSRPNAQELPSMYQRLGLDYEERVLP  
SIVNEVLKSVVAKFNA  
SQLITQRAQVSLIRRELTERAKDFSLILDDVAITELSF  
SREYTA  
AVEAKQVAQQAQRAQFLVEKAKQEQRQKI  
VQAEGEAEAAKMLGEALSKNPGYIKLRKIRAAQNISKTIATSONRIYLTADNLVNLQDESFTRGSDSLIKGKK

3747/6881  
**FIGURE 3457A**

ACGCCATACTGGACGCCAAGTGGGAGGAACTTCAAGGCTGTCCCTGCGGGCTCCCGCTCTGCTTCTGCGAAGG  
TTTCATTGAAAACAGATCCTGCAAAAGTTCCAGGTGCCACACTGGAACTTGGAGATCCTGCTTCCCAGACCAC  
AGCTGTGGGGAACCTGGGGTGGAGCAGAGAAGTTTCTGTATTCTAGCTGCCAGGCAGAGGAGAATGGGGTCTCCA  
CAGCCTGAAGAATGAAGACACGACAGAATAAAGACTCGATGTCAATGAGGAGTGGACGGAAGAAAGAGGCCCTG  
GGCCCCGGGAAGAACTGAGATCGAGGGGCCGGGCTCCCTGGAGGGGTGAGCAGTCCAGCAGTGTGCGAAAG  
CTGAGAAGTCCAGGCAGACAGCCAAGAAGGCCGAGTAGAGGAAGCCTCCACCCCAAAGGTCAACAAGCAGGGTC  
GGAGTGAGGAGATCTCAGAGAGTGAAAGTGAGGAGACCAATGCACCAAAAAGACCAAACTGAGCAGGAACTCC  
CTCGGCCACAGTCTCCCTCCGATCTGGATAGCTTGGACGGGCGGAGCCTTAATGATGATGGCAGCAGCGACCCTA  
GGGATATCGACCAGGACAACCGAAGCACGTCCCCAGTATCTACAGCCCTGGAAGTGTGGAGAATGACTCTGACT  
CATCTTCTGGCTGTCCCAGGGCCCAGCCCGCCCTACCACCCACCTCCACTCTTTCTCTCTCCCTCAACCGC  
CAGACAGCACCCCTCGACAGCCAGAGGCTAGCTTTGAACCCCATCCTTCTGTGACACCCACTGGATATCATGCTC  
CCATGGAGCCCCCACATCTCGAATGTTCCAGGCTCCTCTGGGGCCCTCCCTTACCCACAGCTCTATCTG  
GGGGCACTGGTGGAGTTTTGTCTGGACCCCAATGGGTCCCAAGGGGGGAGGGGTGCCTCATCAGTGGGGGGCC  
CTAATGGGGTAAGCAGCACCCCCACCCACTACTCCCATTTTCAGTATCAAGCTCTGGGGCTAGTGGTGCTCCCC  
CAACAAAGCCGCTACCACTCCAGTGGGTGGTGGGAACCTACCTTCTGCTCCACCACCAGCCAACCTCCCCATG  
TGACACCGAACCTGCCTCCCCACCTGCCCTGAGACCCCTCAACAATGCATCAGCCTCTCCCCCTGGCTGGGGG  
CCCAACCACTACCTGGTCATCTGCCCTCTCCCCACGCCATGGGACAGGGTATGGGTGGACTTCTCTGGCCCAG  
AGAAGGGCCCACTCTGGCTCCTTACCCCACTCTCTGCTCCTGCTCTCTCTGCTCCAGCGCCCCCATGA  
GGTTTCCTTATTCATCCTCTAGTAGTAGCTCTGCAGCAGCCTCCTCTCCAGTTCTTCTCTCTCTCTGCT  
CCCCCTTCCCAGCTTCCCAGGCATTGCCAGCTACCCCACTCTTCCCTCCCCCAACAAGCCTCTCTGCTCCA  
ATCAGCCCCCAAGTATACTCAGCCTTCTCTCCATCCCAGGCTGTGTGGAGCCAGGGTCCCCCACCACCTCTC  
CCTATGGCCGCTCTTAGCCAACAGCAATGCCATCCAGGCCCCCTTCCCTCCCTCTACTGGGGCCAGTCCACCG  
CCCACCCACCACTCTCAACACATCACCATCACCACCAGCAACAGCAACAGCAGCAGCAGCAGCAGCAGCAGC  
AGCAGCAGCAGCAGCAGCATCACGAAACTCTGGGCCCCCTCCTCCTGGAGCATTTCACCCCACTGGAGGGCG  
GTAGCTCCCACCACGCACACCCCTTACGCCATGTCTCCCTCCCTGGGGTCTCTGAGGCCCTACCCACCAGGGCCAG  
CACACCTGCCCCACCTCACAGCCAGGTGTCTTACAGCCAAGCAGGCCCAATGGCCCTCCAGTCTCTTCTCTT  
CCAACCTCTTCTCTTCCACTTCTCAAGGGTCTTACCATGTTTACACCCCTCCCTTCCCAGGGCCCTCAAGGGG  
CGCCCTACCTTTCCCACCGGTGCTTACGGTACCCACCTCTTCGGCTACCCCTTTCCACGGTCATTGCCACCGTGG  
CTTCTCTGCCAGCAGGCTACAAAACGGCCTCCCCACCTGGGCCCCCACCCTACGGAAGAGAGCCCCGTCCCCGG  
GGGCTTACAAGACAGCCACCCACCCGGATACAAACCCGGGTGCGCTCCCTCCTTCCGAACGGGGACCCACCGG  
GCTATCGAGGAACCTCGCCACCTGCAGGCCAGGGACCTTCAAGCCGGGCTCGCCACCGTGGGACCTGGGCCCC  
TGCCACCTGCGGGGCCCTCAGGCCTGCCATCGCTGCCACCACCACCTGCGGCCCTGCTCAGGGCCGCCCCCTGA  
GCGCCACGCAGATCAAACAGGAGCCGGCTGAGGAGTATGAGACCCCGAGAGCCCGGTGCCCCCAGCCCGCAGCC  
CCTCGCCCCCTCCCAAGGTGGTAGATGTACCCAGCCATGCCAGTCAGTCTGCCAGGTTCAACAAACACCTGGATC  
GCGGCTTCAACTCGTGCGCGCGCAGCGACCTGTACTTCTGTCCACTGGAGGGCTCCAAGCTGGCCAAGAACGGG  
CCGACCTGGTGGAGAAGGTGCGGCGGAGGCCGAGCAGCGCGCGCGAAGAAAAGGAGCGCGAGCGCGAGCGGG  
AACGCGAGAAAGAGCGCGAGCGCGAGAAGGAGCGCGAGCTTGAACGCGAGCGTGAAGTTGGCTCAGGAGGGCCGTG  
CTCCGGTGGAAATGCCCATCTCTGGGCCAGTGCCCCATCGCCCTCCATTGAACCGGGCAGTGGGTGGCTACAG  
TGCCCCCTACCTGGGTCTGACACTCCAGCCTTGGCGACTCTCAGTGAATATGCCCGGCTCATGTATGTCTC  
CTGGCAATCGCAACCATCCATTCTACGTGCCCTGGGGGCACTGGACCCGGGGCTCCTGGGTACAAATGTCCCGG  
CCCTGTACAGCAGTGATCCAGCTGCCCGGAGAGGGAACGGGAAGCCCGTGAACGAGACCTCCGTGACCGCCTCA  
AGCCTGGCTTTGAGGTGAAGCCTAGTGAGCTGGAACCCCTACATGGGGTCCCTGGGCCGGGCTTGGATCCCTTTC  
CCCGACATGGGGGCTGGCTCTGCAGCCTGGCCACCTGGCCTGCACCCTTTCCCTTTTCATCCGAGCCTGGGGC  
CCCTGGAGCGAGAACGTCTAGCGCTGGCAGCTGGGCCAGCCCTGCGGCTGACATGTCTATGTGAGCGGCTGG  
CAGCTGAGAGGCAGCACGCAAGGGTGGCGGCCCTGGGCAATGACCCACTGGCCCGGCTGCAGATGCTCAATG  
TGACTCCCCATCACCACCAGCACTCCACATCCACTCGCACCTGCACCTGCACCAGCAAGATGCTATCCATGCAG  
CCTCTGCCTCGGTGCACCTCTCATTGACCCCTGGCCTCAGGGTCTCACCTTACCCGGATCCCTTACCCAGCTG  
GAACTCTCCCTAACCCCTGCTTCTCACCCTCTGCACGAGAACGAAGTCTTCTGTCACCAGCTCTTTGCTGCC

3748/6881  
**FIGURE 3457B**

CTTACCGGGACCTGCCGGCCTCCCTTTCTGCCCCGATGTCAGCAGCTCATCAGCTGCAGGCCATGCACGCACAGT  
CAGCTGAGCTGCAGCGCTTGGCGCTGGAACAGCAGCAGTGGCTGCATGCCCATCACCCGCTGCACAGTGTGCCGC  
TGCCTGCCCAGGAGGACTACTACAGTCACCTGAAGAAGGAAAGCGACAAGCCACTGTAGAACCTGCGATCAAGAG  
AGCACCATGGCTCCTACATTGGACCTTGGAGCACCCCCACCCTCCCCCACCCTGCCCCTTGGCCTGCCACCCAGA  
GCCAAGAGGGTGCTGCTCAGTTGCAGGGCCTCCGCAGCTGGACAGAGAGTGGGGGAGGGAGGGACAGACAGAAGG  
CCAAGGCCCGATGTGGTGTGCAGAGGTGGGGAGGTGGCGAGGATGGGGACAGAAAGCGCACAGAATCTTGGACCA  
GGTCTCTCTTCTTGTCCCCCTGCTTTTCTCCTCCCCATGCCCAACCCCTGTGGCGCCGCCCTCCCCCTGCC  
CCGTTGGTGTGATTATTTTCATCTGTTAGATGTGGCTGTTTTGCGTAGCATCGTGTGCCACCCCTGCCCTCCCCG  
ATCCCTGTGTGCGCGCCCCCTCTGCAATGTATGCCCCTTGGCCCTTCCCCACACTAATAATTTATATATATAAAT  
ATCTATATGACGCTCTTAAAAAAACATCCCAACCAAAACCAACCAACAAAAACATCCTCACAACTCCCCAGGA

3749/6881  
**FIGURE 3458**

ACCCGCGCTCGTACGTGCGCCTCCGCCGGCAGCTCCTGACTCATCGGGGGCTCCGGGTACATGCGCCCGCGCGG  
CCCTATAGGCGCCTCCTCCGCCGCCCGGGAGCCGAGCCGCCGCCACTGCCACTCCCGCTCTCTCAGC  
GCCGCCGTGCGCCACCGCCACCGCCACCGCCACTACCACCGTCTGAGTCTGCAGTCCCGAGATCCCAGCCATCATG

TCCATAGAGAAGATCTGGGCCCCGGGAGATCCTGGACTCCCGCGGGAACCCACAGTGGAGGTGGATCTCTATACT  
GCCAAAGGTCTTTTCCGGGCTGCAGTGGCCAGTGGAGCCTCTACGGGCATCTATGAGGCCCTGGAGCTGAGGGAT  
GGAGACAAACAGCGTTACTTAGGCAAAGGTGTCTGAAGGCAGTGGACCACATCAACTCCACCATCGCGCCAGCC  
CTCATCAGCTCAGGTCTCTCTGTGGTGGAGCAAGAGAACTGGACAACCTGATGCTGGAGTTGGATGGGACTGAG  
AACAAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTGTCTCTGGCCGTGTGTAAGGCAGGGGCAGCTGAGCGG  
GAAGTGGCCCTGTATCGCCACATTGCTCAGCTGGCCGGGAAGTCAAGCTCATCCTGCCTGTGCCGCCCTTCAAC  
GTGATCAATGGTGGCTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTTATGATCCTCCAGTGGGAGCTGAG  
AGCTTTCCGGGATGCCATGCGACTAGGTGCAGAGGTCTACCATACTCAAGGGAGTCAAGGACAAATACGGC  
AAGGATGCCACCAATGTGGGGGATGAAGGTGGCTTTGCCCCCAATATCCTGGAGAACAGTGAAGCCTTGGAGCTG  
GTGAAGGAAGCCATCGACAAGGCTGGCTACACGGAAGATCGTTATTGGCATGGATGTTGCTGCCTCAGAGTTT  
TATCGTATGGCAAATATGACTTGGACTTCAAGTCTCCCACTGATCCTTCCCGATACATCACTGGGGACCAGCTG  
GGGGCACTCTACCAGGACTTTGTGAGGACTATCCTGTGGTCTCCATTGAGGACCCATTTGACCAGGATGATTGG  
GCTGCCTGGTCCAAGTTTACAGCCAATGTAGGGATCCAGATTGTGGGTGATGACCTGACAGTGACCAACCCAAA  
CGTATTGAGCGGGCAGTGGAGAAAAGGCCTGCAACTGTCTGCTGCTCAAGGTCAACCAGATCGGCTCGGTCACT  
GAAGCCATCCAAGCGTGCAAGCTGGCCAGGAGAATGGCTGGGGGGTCAAGGTGAGTCAATCGCTCAGGAGAGACT  
GAGGACACATTCATTGCTGACCTGGTGGTGGGGCTGTGCACAGGCCAGATCAAGACTGGTGGCCCGTGCCGTTCT  
GAACGCTGGCTAAATACAACCAGCTCATGAGAATTGAGGAAGAGCTGGGGGATGAAGCTCGCTTGGCCGACAT  
AACTTCCGTAATCCAGTGTGCTGTGATTCTCTGCTTGCCTGGAGACGTGGAACCTCTGTCTCATCCTCCTGGA  
ACCTTGCTGTCTGATCTGTGATAGTTACCCCTGAGATCCCTGAGCCCCAGGGTGCCAGAACTTCCCTGAT  
TGACCTGCTCCGCTGCTCCTTGCTTACCTGACCTCTTGCTGTCTCTGCTCGCCCTCCTTTCTGTGCCCTACTCA  
TTGGGGTTCCGCACTTTCCACTTCTTCTTTCTTTCTCTTCCCTCAGAACTAGAAATGTGAATGAGGATT  
ATTATAAAGGGGGTCCGTGGAAGAATGATCAGCATCTGTGATGGGAGCGTCAGGGTTGGTGTGCTGAGGTGTTA  
GAGAGGGACCATGTGTCACTTGTGCTTTGCTCTTGTCCCACGTGTCTTCCACTTTCATATGAGCCGTGAAGTGT  
GCATAGTGTGGGATGGAGGGGAGTGTGGGCATGTGATCACGCCTGGCTAATAAGGCTTTAGTGTATTTATTTA  
TTTATTTATTTTATTTGTTTTTCATTTCATCCCATTAATCATTTCCCCATAACTCAATGGCCTAAACTGGCCTGA  
CTTGGGGGAACGATGTGTCTGTATTTTCATGTGGCTGTAGATCCCAAGATGACTGGGGTGGGAGGTCTTGCTAGAA  
TGGGAAGGGTCATAGAAAGGGCCTTGACATCAGTTCCCTTTGTGTGTAATCACTGAAGCCTGCGTTGGTCCAGAGC  
GGAGGCTGTGTGCTGGGGGAGTTTTCTCTATACATCTCTCCCCAACCTAGGTTCCCTGTTCTTCTCCAGCT  
GCACCAGAGCAACCTCTCACTCCCCATGCCACGTTCCACAGTTGCCACCACCTCTGTGGCATTGAAATGAGCACC  
TCCATTAAAGTCTGAATCAGTGC

3750/6881  
**FIGURE 3459**

MSIEKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALERDGDQRYLGKGV LKAVDHINSTIAP  
ALISSGLSVVEQEKL DNLML ELDGTENKSKFGANAILGVSLAVCKAGAAERELPLYRHIAQLAGNSDLILPVPF  
NVI NGGSHAGNKLAMQEFMILPVGAESFRDAMRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENSEALE  
LVKEAIDKAGYTEKIVIGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQLGALYQDFVRDYPVVSIEDPFDQDD  
WAAWSKFTANVGIQIVGDDLTVTNPKRIERAVEEKACNCLLLKVNQIGSVTEAIQACKLAQENGWGMVSHRSGE  
TEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEELGDEARFAGHNFRNP SVL

3751/6881  
**FIGURE 3460**

GGCACGAGGGAGAACTAGTCTCAGTTTTTTTTTTTTTTTTTTAGGTGAGAAAGCCAGCTGACTTTATTGCTCTG  
GGGGCAGGGGGCTCAGGAGCTCTTGGTGGGGCGGGTCCGCTTCTCTTACCATCACAGGCTTCTGGCTGCGCAG  
GATGGCGCTGGCCCTGCGGATGGCTGCCATGCGCAGGTTCGGGGCGGTACTTGTTCTTGCGGATCATGTGTCTGAT  
GCTGCTGAGCGTGGCGCGAGCATTCTTGTTGATGGTGGTCCGCACATAGGAGGTGGCAGGCTTCCGCTGGCCGGA  
TCTCCGCTTAATGACCACCACGACACCTTTGCCGTCCGCTGCCGGCTCCACGCCCACAGTCTTGCGGTGAATCAG  
TCCGTTGTAGCGGAAGGAATTGCGGGCCTTCAAGTTATTGGGCTCAGTGTGTAGGTCTGCTTATTCTCTTGAT  
CAGGAAACTGGAGCAGTTCCGCACGACCATCCATTGCAGATGCGCAGACATGGCGGGCGGCTCCCTTCGCAGCGGC  
GACCTGACCTTCAGCGCCTCGGCTCCAGCGCCATGCGGCCCTCCAGGAAGTTCTTCGTTGGGGGAAACTGGAAGA  
TGAACGGGCGGAAGCAGAGTCTGGGGGAGCTCATCGGCACTCTGAACGCGGCCAAGGTGCCGGCCGACACCGAGG  
TGGTTTGTGCTCCCCCTACTGCCTATATCGACTTCGCCCGGCAGAAGCTAGATCCCAAGATTGCTGTGGCTGCGC  
AGAACTGCTACAAAGTGACTAATGGGGCTTTTACTGGGGAGATCAGCCCTGGCATGATCAAGACTGCGGAGCCA  
CGTGGGTGGTCTTGGGGCACTCAGAGAGAAGGCATGTCTTTGGGGAGTCAGATGAGCTGATTGGGCAGAAAGTGG  
CCCATGCTCTGGCAGAGGGACTCGGAGTAATCGCCTGCATTGGGGAGAAGCTAGATGAAAGGGAAGCTGGCATCA  
CTGAGAAGGTTGTTTTCGAGCAGACAAAGGTCATCGCAGATAACGTGAAGGACTGGAGCAAGGTCGTCTTGGCCT  
ATGAGCCTGTGTGGGCCATTGGTACTGGCAAGACTGCAACACCCCAACAGGCCCCAGGAAGTACACGAGAAGCTCC  
GAGGATGGCTGAAGTCCAACGTCTCTGATGCGGTGGCTCAGAGCACCCGTATCATTTATGGAGGCTCTGTGACTG  
GGGCAACCTGCAAGGAGCTGGCCAGCCAGCCTGATGTGGATGGCTTCCTTGTGGGTGGTGTCTCCCTCAAGCCCG  
AATTCGTGGACATCATCAATGCCAAACAATGAGCCCCATCCATCTTCCCTACCCCTTCTGCCAAGCCAGGGACTA  
AGCAGCCCAGAAGCCCAGTAAGTCCCTTTCCCTGCATATGCTTCTGATGGTGTCTGCTCCTTCTGTGGCC  
TCATCCAAACTGTATCTTCCCTTTACTGTTTATATCTTACCCTGTAATGGTTGGGACCAGGCCAATCCCTTCTCC  
ACTTACTATAATGGTTGGAATAAACGTACCAAGGTGGCTTCTCCTTGGCTGAGAGATGGAAGGCGTGGTGGGA  
TTTGCTCCTGGGTTCCTTAGGCCCTAGTGAGGGCAGAAGAGAAACCATCCTCTCCCTTCTTACACCGTGAGGCCA  
AGATCCCTCAGAAGGCAGGAGTGCTGCCCTCTCCCATGGTGCCCGTGCTCTGTGCTGTGTATGTGAACCACCC  
ATGTGAGGGAATAAACCTGGCACTAGGTAAAAAAAAAAAAAAAAAAAAA

3752/6881  
**FIGURE 3461**

MAPSRKFFVGGNWKMNQRKQSLGELIGILNAAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAF  
TGEISPGMIKDCGATWVVLGHSERRHVFGESEDELIGQKVAHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKV  
IADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSTRIIYGGSVTGATCKELASQP  
DVDGFLVGGASLKPEFVDIINAKQ

3753/6881  
**FIGURE 3462**

GGAGAAGCTGCTGCCGGTGTTCATGGCGGAGCTGAGTGAGGAGGCGCTGCTGTCAGTATTACCGACGATCCGGGTC  
CCTAAGGCTGGAGACCGGGTCCACAAAGACGAGTGCGCCTTCTCCTTCGACACGCCGGAGTCTGAGGGGGGCCCTC  
TACATCTGTATGAACACGTTTCTGGGCTTTGGGAAACAGTATGTGGAGAGACATTTCAATAAGACCGGCCAGCGA  
GTCTACTTGCACCTCCGGCGGACCGGGCGCCGAAAGAGGAGGACCCTGCTACAGGCACTGGAGACCCACCCCGG  
AAGAAGCCCCACGCGGCTGGCTATTGGTGTGAAGGCGGATTGACCTTAGCGAGGAGAAGTTTGAATTAGACGAG  
GATGTGAAGATTGTCAATTTGCCAGATTACCTGGAGATTGCCCGGATGGACTGGGGGACTGCCGTGACATTGTC  
AGAGATCGGGTGACCAGTGCAGTGGAGGCCCTACTGTGGGCCGACTCAGCCTCCCGCAAGCAGGAGGTGCAGGCA  
TGGGATGGGGAAGTACGGCAGGTGTCTAAGCATGCCTTCAGCCTCAAGCAGTTGGACAACCTGCTCGAATCCCT  
CCCTGTGGCTGGAAGTGTCCAAGTGTGACATGAGAGAGAACCCTGTGGCTCAACCTGACTGATGGCTCCATCCTC  
TGTGGGCGACGCTACTTCGATGGCAGTGGGGGCAACAACCACGCTGTGGAGCACTACCGAGAGACAGGCTACCCG  
TTAGCTGTCAAGCTGGGCACCATCACCCCTGATGGAGCTGACGTGTACTCATATGATGAGGATGACATGGTCTCTG  
GACCCACGCTGGCTGAGCACCTGTCCACTTCGGCATCGACATGCTGAAGATGCAGAAGACAGACAAGACGATG  
ACTGAGTTGGAGATAGACATGAACCAGCGGATTGGTGAATGGGAGCTGATCCAGGAGTCAGGTGTGCCACTCAAG  
CCCCGTGTTGGGCTGGCTACACAGGCATCCGGAACCTGGGTAACAGCTGCTACCTCAACTCTGTGGTCCAGGTG  
CTCTTCAGCATCCCTGACTTCCAGAGGAAGTATGTGGATAAGCTGGAGAAGATCTCCAGAATGCCCCGACGGAC  
CCTACCCAGGATTTTCAGCACCCAGGTGGCCAGCTGGGCCATGGCCTTCTCTCCGGGGAGTATTCGAAGCCAGTA  
CCGGAGTCGGGCGATGGGGAGCGGGTGCCAGAACAGAAGGAAGTTCAAGATGGCATTGCCCCCTCGGATGTTCAAG  
GCCCTCATCGGCAAGGGCCACCCCTGAATTCTCCACCAACCGGCAGCAGGATGCCCAGGAGTTCTTCTTCACCTT  
ATCAACATGGTGGAGAGGAATTGCCGGAGCTCTGAAATCCTAATGAAGTGTTCGCTTCTTGGTGGAGGAAAAG  
ATCAAGTGCTGGCCACAGAGAAGGTGAAGTACACCCAGCGAGTTGACTACATCATGCAGCTGCCTGTGCCCATG  
GATGCAGCCCTTAACAAAGAGGAGCTTCTGGAGTACGAGGAGAAGAAGCGGCAAGCCGAAGAGGAGAAGATGGCA  
CTGCCAGAACTGGTTCCGGGCCAGGTGCCCTTCAGCTCTTGCTGGAGGCCTACGGGGCCCCCTGAGCAGGTGAT  
GACTTCTGGAGCACGGCCCTGCAGGCCAAGTCAGTAGCTGTCAAGACCACACGATTGCTTCACTTCCCTGACTAC  
CTGGTTCATCCAGATCAAGAAGTTCACCTTCGGCTTAGACTGGGTGCCCAAGAACTGGATGTGTCCATCGAGATG  
CCAGAGGAGCTCGACATCTCCAGTTGAGGGGCACAGGGCTGCAGCCCGAGAGGAGGAGCTGCCAGACATTGCC  
CCACCCCTGGTCACTCCGATGAGCCCCAAAGCGCCCATGCTGGATGAATCAGTCATCATCCAGCTGGTGGAGATG  
GGATTCCCTATGGACGCCTGCCGCAAAGCTGTCTACTACAGGGCAACAGCGGGGCTGAGGCCGCCATGAAGTGG  
GTCATGTACACATGGATGATCCAGATTTTGAAACCCCTCATCCTGCCTGGCTCTAGTGGGCCGGGCTCCACA  
AGCGCAGCAGCCGACCCCCCTCTGAGGACTGTGTGACCACCATGTCTCCATGGGCTTCTCCCGGGACAGGCC  
TTGAAAGCGCTGCGGGCCACGAACAATAGTTTAGAACGGGCTGTGGACTGGATCTTCAGTCACATTGACGACCTG  
GATGCTGAAGCTGCCATGGACATCTCAGAGGGCCGCTCAGCTGCCGACTCCATCTCTGAGTCTGTGCCAGTGGGA  
CCTAAAGTCCGGATGGTCTCGAAAGTATCAGCTCTTGCCCTTCAATAGTCACATGGGCACCTCTACCATGTGT  
GGTCACTACGCTGCCACATCAAGAAAGAAGGCAGATGGGTGATCTACAATGACCAGAAAGTGTGTGCCCTCCGAG  
AAGCCGCCCAAGGACCTGGGCTACATCTACTTCTACCAGAGAGTGCCAGCTAAGAGCCTGCCTCACCCCTTACC  
AATGAGGGCAGGGGAAGACCACCTGGCATGAGGGAGAGGGGCTGAGGGATGGACTTCAGCCCCCTCTGCTCTGTAC  
CCTTTTTCTTTGTCCCCGGCAGCAGGGAAGAAGCTGGAGGCCGTGGGAGAATGGCTGGGCAGAGCAGAGGGGC  
AGCGATAGACTCTGGGGATGGAGCAGGACGGGGACGGGAGGGGCCGCCACCTGCTGTAAAGGAGACTTTGTGTG  
TTCCCCCTGCCCCCGGAATCCACAGTGCTCTGCTTCTCTGTGTCGCCCCGCCAGCCCCCTGGTGTGGAGGGAGGG  
GTCTCGTTTTGTGCGGTGGGTGTAGCTTTGTGCATCCTCTCCAGTGGAGCGATCACCTGTGCCTCCCCCTCCCC  
TTGTTTTGCCCTGTGTGGTTGGTCAAGGAGGGATGTGAGGGAATAGGGACCCCCCGACTTGCCCTCTGCCTC  
AGTCTTTCCCCACCCCTGTCTCTTCTTGTCTTCTCTGGAATGCCAAATACACGATGTGAATAAAGTACA  
ACGGCT



3754/6881  
**FIGURE 3463**

CCACAATAGGGGCAGACCTGTCCATCCTTCTCTGTGGGTCCCCTGTACCTTTCTCCCCAACAGGATCAGACCCA  
GAGGCAGCTGTTTGGGGTTTGTTCGAGAAGAAGGATTATCCAGATCAGTCCTTTCTAATCTCAGCTCCTGCCTGTA  
CCCTCCCATACTACCAAACCCTCTTCCCCACCACCCTGAGCTGAGGAGCACAGTTTGAGGCCCCCAACCCCC  
CGCCGGTCGGGGCCAGGCCAGGCCAGGCCAGCTCCTCTGGCAGCAGAGCCTGGGCAGGTGACGGGCGGGCGGGG  
CGTCGCAGCTGAGGGAGTAAGGAGGCTCCAGGAACCGGAGCTGGAACCCGGCCGAGGTCCAGCCAGAGCCCAA  
GAGCCAGAGTGACCCCTCGACCTGTCTAGCCATGGGGGAGATGGAGCAACTGCGTCAGGAAGCGGAGCAGCTCAAG  
AAGCAGATTGCAGATGCCAGGAAAGCCTGTGCTGACGTTACTCTGGCAGAGCTGGTGTCTGGCCTAGAGGTGGTG  
GGACGAGTCCAGATGCGGACGCGGGGACGTTAAGGGGACACCTGGCCAAGATTTACGCCATGCACTGGGCCACT  
GATTCTAAGCTGCTGGTAAGTGCCTCGCAAGATGGGAAGCTGATCGTGTGGGACAGCTACACCACCAACAAGGTG  
CACGCCATCCCACTGCGCTCCTCCTGGGTCTGACCTGTGCTATGCCCCATCAGGGAACCTTTGTGGCATGTGGG  
GGGCTGGACAACATGTTTCCATCTACAACCTCAAATCCCGTGAGGGCAATGTCAAGGTGAGCCGGGAGCTTTCT  
GCTCACACAGGTTATCTCTCCTGCTGCCGCTTCTCTGGATGACAACAATATTGTGACCAGCTCGGGGGACACCACG  
TGTGCCCTGTGGGACATTGAGACTGGGCAGCAGAAGACTGTATTTGTGGGACACACGGGTGACTGCATGAGCCTG  
GCTGTGTCTCCTGACTTCAATCTCTTCATTTCGGGGGCTGTGATGCCAGTGCCAAGCTCTGGGATGTGCGAGAG  
GGGACCTGCCGTGAGACTTTCACTGGCCACGAGTCGGACATCAACGCCATCTGTTTCTTCCCCAATGGAGAGGCC  
ATCTGCACGGGCTCGGATGACGCTTCTGCGGCTTGTGTTGACCTGCGGGCAGACCAGGAGCTGATCTGCTTCTCC  
CACGAGAGCATCATCTGCGGCATCAGCTCCGTGGCCTTCTCCCTCAGTGGCCGCCTACTATTGCTGGCTACGAC  
GACTTCAACTGCAATGTCTGGGACTCCAATGAAGTCTGAGCGTGTGGGCATCCTCTCTGGCCACGATAACAGGGTG  
AGCTGCCCTGGGAGTCACAGCTGACGGGATGGCTGTGGCCACAGGTTCTCTGGGACAGCTTCTCAAATCTGGAAC  
TGAGGAGGCTGGAGAAAGGGAAGTGGAAGGCAGTGAACACACTCAGCAGCCCCCTGCCGACCCCATCTCATTCA  
GGTGTCTCTTCTATATTCCGGGTGCCATTCCCACTAAGCTTTCTCCTTTGAGGGCAGTGGGGAGCATGGGACTG  
TGCCTTTGGGAGGCAGCATCAGGGACACAGGGGCAAAGAACTGCCCCATCTCCTCCCATGGCCTTCCCTCCCCAC  
AGTCCTCACAGCCTCTCCCTTAATGAGCAAGGACAACCTGCCCTCCCCAGCCCTTTGCAGGCCCAGCAGACTTG  
AGTCTGAGGCCCCAGGCCCTAGGATTCTCCCCCAGAGCCACTACCTTTGTCCAGGCCTGGGTGGTATAGGGCGT  
TTGGCCCTGTGACTATGGCTCTGGCACCCTAGGGTCTGGCCCTCTTCTTATTTCATGCTTTCTCCTTTTCTAC  
CTTTTTTCTCTCCTAAGACACCTGCAATAAAGTGTAGCACCTGGTA

3755/6881

**FIGURE 3464**

MGEMEQLRQEAQLKKQIADARKACADVTLAELVSGLEVVGVRVQMRTRRTLRGHLAKIYAMHWATDSKLLVSASQ  
DGKLIVWDSYTTNKVHAIPLRSSWVMTCAYAPSGNFVACGGLDNMCSIYNLKSREGNVKVSRELSAHTGYLSCCR  
FLDDNNIVTSSGDTTCALWDIETGQQKT V FVGHTGDCMSLAVSPDFNLFISGACDASAKLWDVREGTCRQTFTGH  
ESDINAICFFPNGEAICTGSDDASCRLFDLRADQELICFSHESIICGITSVAFSLSGRLLFAGYDDFNCNVWDSM  
KSERVGILSGHDNRVSLGVTADGMAVATGSWDSFLKIWN

3756/6881  
**FIGURE 3465**

TACGCCCACAGTGAAGCATGCCAAGGTGTACACCTGGACTATCTGCAGTCGGGGATACACATCCCAGGAAACATA  
CCTTATGAAACATATGCGCAAACACAACCCGCCTGATCTTCAGCAACAGGTGCAGGCAGCAGCAGCAGCGGCAGC  
AGTGGCCCAGGCCAGGCTCAAGCTCAAGCCCAGGCTCAGGCTCAGGCTCAAGCCCAGGCCAGGCCAGGCCTC  
CCAGGCATCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAACAGCCACCACCACACTTCCA  
GTCTCTGGGGCAGCCCCCAGGGTGGGGGTGGTGGGGACAGCAATCCCAACCCTCCACCCAGTGTTCCTTTGA  
CCTGACCCCGTATAAGACGGCGGAGCATCATAAGGACATCTGCCTCACTGTCACCACCAGCACCATCCAGGTGGA  
GCACCTGGCCAGCTCTTAGAGATCCGTGCTGCCACCCACTGGGAAGAGGAAGAAGTAGTCCCTGGTGTCTTCTTTC  
TCCAACCTCTTGGTGGGAAAAGTCCTTTTCTTCCTTGACAGGCCTTGGCTCCATCTCCTTGGGCCTCTGTACGGC  
TTTCCTTCACAGGATACCATCCTTTTTCTGAACTCTTCTCAAAGGAACATCAGCCCTCCTGATTGCAAAGGAA  
TACTGAGCTGATGGTGTTCATCCAGCAGCCTCCCTCCCAAGCAAAGCTTCTAAAAGTGGGGGTGGTGTCTCAAGG  
GAAGGATTGCTATGACCTCATAGAACCTTGTCAGTGTGGCCACTTACCCTATCCTTACCCTCCTTATCTCAA  
AGTTTGGGCTGATGTAAGACTAGAGGCTGGCCCTCCAGATAACAGAGAAAAGGGAGCCCCAAATGCAACCAGCC  
TCTTGTCTATTCTTGCTTGCAAAGAACAGAGGTTTCTCAAATGCCTCAGTCCCTGAGAGCCATTTCTTCCCTT  
ACATCGTCTCACTTTGCTTCCTATTGACTGCTGGTAGAAGGAGATTTGGGGTAGGGGCTAGACCTCCTTTTATTT  
GAAGGGGGCAAGGGCTGAGATGTGGTCCCCAAGGGGCCAGAAATCCCAAGTTGGTCACAGGTGGCTTAGAAGTG  
TGTGTTATGGTTTTACGGATTTTCCTTGAAGCCTCTCTCCTTCTCTGCCTACAAAGACCCTATACTCTCAGTCTCC  
CCAACCCACCCCAAGGAGCTGTGGGAGGCTTTGTGTTATCTGTGAACTCCAAACAGGGGTGTTGCGGAGAAG  
GGAGAGTTCAAGGCAAACGCAAGGACTGGACTTAGCTCCCTAGGTGCCACAGTCAGATGCCGGACACGGATTAT  
ATATAAATATATATATATAAATATATTATACTCACTCATCACGGCCATCTTTGTTGTAACCATTCTGTGTTTAT  
AAATGCATTATCTCTGAGAATTTTCATATTTGATGTTTGTGTTATTTTGTCTTTTTTCCCTCTCTCCACCCC  
TGTCCTCTAGCCACAGCATTTTTCTTTTTGTC

3757/6881  
**FIGURE 3466**

GCCGAGGGGGGCGTACGGAGGTGGCAGCTGTGGGAGGAGGCGGCGTGGAAGGCCGAGGAGCTCAAGCCCGGACCA  
ATCCCCACGTTCCGGGGCCGCGACCCCTGACCCTGCAGCGTACCGGGAAGCGAAACCGGCCGGATGGGCCGCTGAGC  
CCGAATCGGGCACTGTGTGGAGCCCCCTGGAGCTGAGATCAGGATGTTCCGCTTCATGAGGGACGTGGAGCCTGA  
GGATCCCATGTTCTGTATGGATCCCTTTGCTATTACCGTCAGCATATGAGCCGTATGTTGTGAGGTGGCTTTGG  
ATATAGCCCCCTTCTCAGCATCACAGATGGCAACATGCCAGGGACCAGGCCTGCCAGCCGCCGGATGCAGCAGGC  
TGGAGCTGTCTCCCCCTTTGGGATGCTGGGAATGTCGGGTGGTTTCATGGACATGTTTGGGATGATGAATGACAT  
GATTGGAAACATGGAACACATGACAGCTGGAGGCAATTGCCAGACCTTCTCATCTTCCACTGTCATCTCCTACTC  
CAATACGGGTGATGGTGCCCCAAGGTCTACCAAGAGACATCAGAGATGCGCTCGGCACCAGGCGGGATCCGGGA  
GACACGGAGGACTGTTCCGGGATTCAGACAGTGGACTGGAGCAGATGTCCATTGGGCATCACATCCGGGACAGGGC  
TCACATCCTCCAGCGCTCCCCGAAACCATCGCACGGGGGACCAGGAGGAGCGGCAGGACTATATCAACCTGGATGA  
GAGTGAGGCCGAGCGTTTGATGACGAGTGGCGGCGGGAGACCTCCCGATTCCGGCAGCAGCGTCCCCTGGAGTT  
TCGGCGGCTTGAGTCCTCAGGGGCTGGGGGACGAAGGGCGGAGGGGCCTCCCCGCCTGGCCATCCAGGGACCTGA  
GGACTCCCCTTCCCGACAGTCCCGCCGCTATGACTGGTGAGGCCCGGGCCCTCAGCCTCTCTTGTACAGGCTGA  
GAGGCTGAGAAATCATCCCCTGAATAACTTTTTCTCTCGATTCCCATCCCCAATTTAATATTAAATTAACAGGC  
AAGCCGGCCCCACCTCTCCCTGGGGGTCTCAGGGAGAACCTTTCAGGCAACCCTTCCCTACCTTTTCTCTCTT  
TAATCTCCTGGTTTACCATTGATGACTTCGCCTCTGCATCTACTGACTTGATTTTTTATTCTGCCACTCCATCTT  
CAAACCCCTCACCTTTCCCATCCTACTCCTGCCATGCATTGAAGGGTCAATGCATTTTGGGGTGAGCTCTGGGT  
TTAGGGGGCCCCCTCCATCCCTCAGCTACCCTGGATCTTTGCCACCTCTTCCTCAGAGCCCCACTGAGGGGCCG  
TAGCCCTATCTAGGGCTGTGGAAGGAGCAGACTGGTTCCTAACTCTCTCCCTCCTCCTGCCACACACATCAAAA  
GAATCTTCCCTACACCCTTCTCTGCCTTTATTTTTTGATTTGTGCAACTGTAACTAGGTGTTTATGGAATAAAG  
GAGAATGAAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3758/6881

**FIGURE 3467**

MFRFMRDVEPEDPMFLMDPFAIHRQHMSRMLSGGFGYSPFLSITDGNMPGTRPASRRMQAGAVSPFGMLGMSGG  
FMDMFGMMNDMIGNMEHMTAGGNCQTFSSSTVISYSNTGDGAPKVYQETSEMRSAPGGIRETRRTVRDSDSGLEQ  
MSIGHHIRDRAHILQSRNHRTGDQEERQDYINLDESEAAAFDDEWRRETSRFRQQRPLEFRRLLESSGAGGRRAE  
GPPRLAIQGPEDSPSRQSRRYDW

3759/6881  
FIGURE 3468A

GCGGCTCCGGGTGACTCGGGCCAGTGTAGAGGTCTCAGGCCGCCGGCAGGAGCAGCTGGGCCAATTCCTTGCC  
GGGAGCGGAAGGGGATGGCGTCTGGGCTCCCCGTCCCCCTGCTCGGCGGGCAGTGAGGAGGAGGATATGG  
ATGCACTTTTGAACAACAGCCTGCCCCACCCACCCAGAAAATGAAGAGGACCCAGAAGAGGATTTGTCAGAAA  
CAGAGACTCCAAAGCTCAAGAAGAAGAAAAGCCTAAGAAACCTCGGGACCCATAAATCCCTAAGAGCAAGCGCC  
AAAAAAGGAGCGTATGCTCTTATGCCGGCAGCTGGGGGACAGCTCTGGGGAGGGGCCAGAGTTTGTGGAGGAGG  
AGGAAGAGGTGGCTCTGCGCTCAGACAGTGAGGGCAGCGACTATACTCTGGCAAGAAGAAGAAGAAGCTTG  
GACCTAAGAAAGAGAAGAAGAGCAAATCCAAGCGGAAGGAGGAGGAGGAGGATGATGATGATGATTCAA  
AGGAGCCTAAATCATCTGCTCAGCTCCTGGAAGACTGGGGCATGGAAGACATTGACCACGTGTTCTCAGAGGAGG  
ATTATCGAACCCTCACCAACTACAAGGCCCTTCAGCCAGTTTGTGACACCCCTCATTGCTGCCAAAAATCCCAAGA  
TTGCTGTCTCCAAGATGATGATGGTTTTGGGTGCAAAATGGCGGGAGTTCAGTACCAATAACCCCTTCAAAGGCA  
GTTCTGGGGCATCAGTGGCAGCTGCGGCAGCAGCAGCGGTAGCTGTGGTGGAGAGCATGGTGACAGCCACTGAGG  
TTGACCACACCTCCCCCTGTGGAGGTGCCTATCCGCAAGGCCAAGACCAAGGAGGGCAAAGGTCCCAATGCTC  
GGAGGAAGCCCAAGGGCAGCCCTCGTGACCTGATGCCAAGAAGCCTAAACCCAAGAAAGTAGCTCCCCTGAAAA  
TCAAGCTGGGAGGTTTTGGTTCCAAGCGTAAGAGATCCTCGAGTGAGGATGATGACTTAGATGTGGAATCTGACT  
TCGATGATGCCAGTATCAATAGCTATTCTGTTTCTGATGGTTCCACCAGCCGTAGTAGCCGCAGCCGCAAGAAAC  
TCCGAACCACTAAAAAGAAAAAGAAAGGCGAGGAGGAGGTGACTGCTGTGGATGGTTATGAGACAGACCACCAGG  
ACTATTGCGAGGTGTGCCAGCAAGGCGGTGAGATCATCTGTGTGATACCTGTCCCCGTGCTTACCACATGGTCT  
GCCTGGATCCCGACATGGAGAAGGCTCCCGAGGGCAAGTGGAGCTGCCACACTGCGAGAAGGAAGGCATCCAGT  
GGGAAGCTAAAGAGGACAATTCCGAGGGTGAGGAGATCTGGAAGAGGTTGGGGGAGACCTCGAAGAGGAGGATG  
ACCACCATATGGAATTTCTGCGGTCTGCAAGGATGGTGGGAACTGCTCTGCTGTGATACCTGTCTTCTTCT  
ACCACATCCACTGCCTGAATCCCCACTTCCAGAGATCCCCAACGGTGAATGGCTCTGTCCCCGTGTACGTGTC  
CAGCTCTGAAGGGCAAAGTGCAGAAGATCTAATCTGGAAGTGGGGTCAGCCACCATCTCCCACACCAGTGCCTC  
GGCCTCCAGATGCTGATCCCAACACGCCCTCCCCAAAGCCCTTGGAGGGCGGCCAGAGCGGCAGTTCTTTGTGA  
AATGGCAAGGCATGTCTTACTGGCACTGCTCTGGGTTTCTGAACTGCAGCTGGAGCTGCACTGTGAGGTGATGT  
TCCGAACTATCAGCGGAAGAATGATATGGATGAGCCACCTTCTGGGGACTTTGGTGGTGATGAAGAGAAAAGCC  
GAAAGCGAAAGAACAAGGACCCTAAATTTGCAGAGATGGAGGAACGCTTCTATCGCTATGGGATAAAACCCGAGT  
GGATGATGATCCACCGAATCTCAACCACAGTGTGGACAAGAAGGGCCACGTCCACTACTTGATCAAGTGGCGGG  
ACTTACCTTACGATCAGGCTTCTTGGGAGAGTGAGGATGTGGAGATCCAGGATTACGACCTGTTCAAGCAGAGCT  
ATTGGAATCACAGGGAGTTAATGAGGGGTGAGGAAGGCCGACCAGGCAAGAAGCTCAAGAAGGTGAAGCTTCGGA  
AGTTGGAGAGGCCTCCAGAAACGCCAACAGTTGATCCAACAGTGAAGTATGAGCGACAGCCAGAGTACCTGGATG  
CTACAGGTGGAACCTGCAACCCCTATCAAATGGAGGGCCTGAATTGGTTGCGCTTCTCCTGGGCTCAGGGCACTG  
ACACCATCTTGGCTGATGAGATGGGCCTTGGGAAAACCTGTACAGACAGCAGTCTTCTGTATTCCCTTTACAAGG  
AGGGTCATTCCAAAGGCCCTTCTAGTGAGCGCCCCCTTCTTACCATCATCAACTGGGAGCGGGAGTTTGAAG  
TGTGGGCTCCAGACATGTATGTGCTAACCTATGTGGGTGACAAGGACAGCCGTGCCATCATCCGAGAGAATGAGT  
TCTCCTTTGAAGACAATGCCATTCTGTGGTGGAAGAAGGCCTCCCGCATGAAGAAAAGGCATCTGTGAAATTC  
ATGTGCTGCTGACATCCTATGAATTGATCACCATTGACATGGCTATTTTGGGCTCTATTGATTGGGCCTGCCTCA  
TCGTGGATGAAGCCCATCGGCTGAAGAACAATCAGTCTAAGTTCTTCCGGGTATTGAATGGTTACTCACTCCAGC  
ACAAGCTGTTGCTGACTGGGACACCATTACAAAACAATCTGGAAGAGTTGTTTCATCTGCTCAACTTTCTCACC  
CCGAGAGGTTCCACAATTTGGAAGGTTTTTGGAGGAGTTTGTGACATTGCCAAGGAGGACCAGATAAAAAAAC  
TGCATGACATGCTGGGGCCGCACATGTTGCGGCGGCTCAAAGCCGATGTGTTCAAGAACATGCCCTCCAAGACAG  
AACTAATTGTGCGTGTGGAGCTGAGCCCTATGCAGAAGAAATACTACAAGTACATCCTCACTCGAAATTTTGAAG  
CACTCAATGCCCCAGGTGGTGGCAACCAGGTGTCTCTGTGAATGTGGTGATGGATCTTAAGAAGTGCTGCAACC  
ATCCATACCTCTTCCCTGTGGCTGCAATGGAAGCTCCTAAGATGCCTAATGGCATGTATGATGGCAGTGCCTAA  
TCAGAGCATCTGGGAAATTATTGCTGCTGCAGAAAATGCTCAAGAACCTTAAGGAGGGTGGGCATCGTGACTCA  
TCTTTTCCAGATGACCAAGATGCTAGACCTGCTAGAGGATTTCTTGAACATGAAGGTTATAAATACGAACGCA  
TCGATGGTGGAACTCACTGGGAACATGCGGCAAGAGGCCATTGACCGCTTCAATGCACCGGGTGCTCAGCAGTTCT  
GCTTCTTGCTTTCCACTCGAGCTGGGGGCCCTTGAATCAATCTGGCCACTGCTGACACAGTTATTATCTATGACT  
CTGACTGGAACCCCATTAATGACATTACAGCCTTTAGCAGAGCTCACCGGATTGGGCAAAATAAAAGGTAATGA

3760/6881  
**FIGURE 3468B**

TCTACCGGTTTGTGACCCGTGCGTCAGTGGAGGAGCGCATCACGCAGGTGGCAAAGAAGAAAATGATGCTGACGC  
ATCTAGTGGTGCGGCCTGGGCTGGGCTCCAAGACTGGATCTATGTCCAAACAGGAGCTTGATGATATCCTCAAAT  
TTGGCACTGAGGAACTATTCAAGGATGAAGCCACTGATGGAGGAGGAGACAACAAAGAGGGAGAAGATAGCAGTG  
TTATCCACTACGATGATAAGGCCATTGAACGGCTGCTAGACCGTAACCAGGATGAGACTGAAGACACAGAATTGC  
AGGGCATGAATGAATATTTGAGCTCATTCAAAGTGGCCAGTATGTGGTACGGGAAGAAGAAATGGGGGAGGAAG  
AGGAGGTAGAACGGGAAATCATTAAACAGGAAGAAAGTGTGGATCCTGACTACTGGGAGAAATTGCTGCGGCACC  
ATTATGAGCAGCAGCAAGAAGATCTAGCCCGAAATCTGGGCAAAGGAAAAAGAATCCGTAAACAGGTCAACTACA  
ATGATGGCTCCCAGGAGGACCGAGATTGGCAGGACGACCAGTCCGACAACCAGTCCGATTACTCAGTGGCTTCAG  
AGGAAGGTGATGAAGACTTTGATGAACGTTGAGAAGTCCCCGTAGGCCAGTCTGTAAGGGCTGCGGAATGATA  
AAGATAAGCCATTGCCCTCCTCTGTTGGCCCGTGTGGTGGGAATATTGAAGTACTTGGTTTTAATGCTCGTCAGC  
GAAAAGCCTTTCTTAATGCAATTATGCGATATGGTATGCCACCTCAGGATGCTTTTACTACCCAGTGGCTTGTA  
GAGACCTGCGAGGCAATCAGAGAAAGAGTTCAAGGCATATGTCTCTCTTTTCATGCGGCATTATGTGAGCCGG  
GGGCAGATGGGGCTGAGACCTTTGCTGATGGTGTCCCCGAGAAGGCCTGTCTCGCCAGCATGTCTTACTAGAA  
TTGGTGTATGTCTTTGATTGCGAAGAAGTTTCAGGAGTTGAACATGTTAATGGGCGCTGGAGCATGCCTGAAC  
TGGCTGAGGTGGAGGAAAAACAAGAAGATGTCCAGCCAGGGTCACCCTCCCCAAAACTCTACACCCTCCACTC  
CAGGGGACACGCAGCCCAACTCCTGCACCTGTCCACCTGCTGAAGATGGGATAAAAATAGAGGAAAATAGCC  
TCAAAGAAGAAGAGAGCATAGAAGGAGAAAAGGAGGTTAAATCTACAGCCCTGAGACTGCCATTGAGTGTACAC  
AGGCCCTGCCCCCTGCCTCAGAGGATGAAAAGGTCGTTGTTGAACCCCTGAGGGAGAGGAGAAAGTGGAAAAGG  
CAGAGGTGAAGGAGAGAACAGAGGAACCTATGGAGACAGAGCCCAAGGTGCTGCTGATGTAGAGAAGGTGGAGG  
AAAAGTCAGCAATAGATCTGACCCCTATTGTGGTAGAAGACAAAGAAGAGAAGAAAGAAGAGAAAAAAG  
AGGTGATGCTTCAGAATGGAGAGACCCCAAGGACCTGAATGATGAGAAACAGAAGAAAAATATTAAACAACGTT  
TCATGTTTAACATTGCAGATGGTGGTTTTACTGAGTTGCACTCCCTTTGGCAGAATGAAGAGCGGGCAGCCACAG  
TTACCAAGAAGACTTATGAGATCTGGCATCGACGGCATGACTACTGGCTGCTAGCCGGCATTATAAACCATGGCT  
ATGCCCGGTGGCAAGACATCCAGAATGACCCACGCTATGCCATCCTCAATGAGCCTTTCAAGGGTGAAATGAACC  
GTGGCAATTTCTTAGAGATCAAGAATAAATTTCTAGCTCGAAGGTTTAAGCTCTTAGAACAAGCTCTGGTGATTG  
AGGAACAGCTGCGCCGGGCTGCTTACTTGAACATGTGAGAAGACCTTCTCACCTTCCATGGCCCTCAACACCC  
GCTTTGCTGAGGTGGAGTGTGTTGGCGGAAAGTCATCAGCACCTGTCCAAGGAGTCAATGGCAGGAAACAAGCCAG  
CCAATGCAGTCTGACACAAAGTTCTGAAACAGCTGGAAGAACTGCTGAGTGACATGAAAGCTGATGTGACTCGAC  
TCCCAGCTACCAATTGCCCGAATTCCCCCAGTTGCTGTGAGGTTACAGATGTCAGAGCGTAACATTCTCAGCCGCC  
TGGCAAACCGGGCACCCGAACCTACCCACAGCAGGTAGCCAGCAGCAGTGAAGATGCAGACTGATAACCACCTC  
CACCGCTGAGCAGTGACCTTCCTCACTTTCTCTGTCCAGCTTCTCCCCCTGGGGGCTGAGAGACCTCACCTT  
CCTTCTGCCCATCTTCCATGTTGTAAAGGAACAGCCCCAGTGCACTGGGGGAGGGGAGGGAGTGAGGGGCAGTGG  
TGCCCTTCTGTCAGAAGAGACATGCAGCAGTAGCGCTGGCGCCATCTGCAGGAGCTGGCGGGCTGGCCTTCTGGA  
CCCTGGCTTCTCCCCACTGTAACGCCTGTTACACACAACTGTTGTGGGTTCTGCCAGGCTTGAAGAAAATGAT  
CTGAATTTTTCTCCTTTTTGGTTTTATTTTGTGGTTTTATTTTGTGTTTTCTTTCTCCTTTTTGGGGGTATT  
CAGAGTGGGCTGGGCCCCCTGGGCGAGACACAGCTACCTCTGTTGGCATCTTTTAATACCAGGAACCCAGCGGCT  
CTAGCCACTGAGCGGCTAAATGAAATAAAGTGGAAAAAAGGAAAAAACCAAGCATAAAAACCAC  
AGCAAATTTCTTGATGAAATGAAATAAAGTTTCTTGT

3761/6881  
**FIGURE 3469**

MASGLGSPSPCSAGSEEDMDALLNNSLPPPHPENEEDEEDLSETETPKLKKKKKPKKPRDPKIPKSKRQKKER  
MLLCRQLGDSSGEGPEFVEEEEEEVALRSDSEGSYTPGKKKKKLGPKKEKSKSKRKEEEEDDDDDDSKEPKS  
SAQLLEDWGMEDIDHVFSEEDYRTLTYKAFSQFVRPLIAAKNPKIAVSKMMVLGAKWREFSTNNPFKGSSGAS  
VAAAAAAVAVVESMTATEVAPPPPPVEVP IRKAKTKEGKGNARRPKGSPRVDAKKPKPKVAPLKIKLGG  
FGSKRRSSSEDDDLVESDFDDASINSYSVSDGSTSRSSRSRKKLRITTKKKKKGEEVTAVDGYETHQDYCEV  
CQQGGEIILCDTCPRAYHMCVCLDPDMEKAPGKWSWVSELQLELHCQVMFRNYQRKNDMEPPSGDFGGDEEKSRRKN  
FCRVCKDGGELLCCDTCPPSSYHIHCLNPPLEIPNGEWLCPRCTCPALKGKVQKILIKWKGQPPSPTPVPRPPDA  
DPNTPSPKPLEGRPERQFFVKWQMSYWHCSWVSELQLELHCQVMFRNYQRKNDMEPPSGDFGGDEEKSRRKN  
KDPKFAEMEERFYRYGIKPEWMMIHRILNHSVDKKGHVHYLIKWRDLPYDQASWESEDVEIQDYDLFKQSYWNHR  
ELMRGEEGRPGKKLKKVLRKLERPPETPTVDPTVKYERQPEYLDATGGTLHPYQMEGLNWLRFSWAQGTDTILA  
DEMGLGKTQVTAFLYSLYKEGHSKGPFLVSAPLSTIINWEREFEMWAPDMYVVTYVGDKDSRAIIRENEFSFED  
NAIRGGKKASRMKKEASVKFHVLLTSYELITIDMAILGSIDWACLIVDEAHLKNNQSKFFRVNLNGYSLQHKLLL  
TGTPLONNLEELFHLNFLTPERFHNLEGFLEEFADIKEDQIKKLHDMLGPHMLRRLKADVFNMPSKTELIVR  
VELSPMQKKYKYILTRNFEALNARGGGNQVSLNVMMDLKKCCNHPYLPVAAAMEAPKMPNGMYDGSALIRASG  
KLLLLQKMLKNLKEGGHRLVIFSQMTKMLDLEDFLEHEGYKYERIDGGITGNMRQEAIDRFNAPGAQQFCFLLS  
TRAGGLGINLATADTVIYDSDWNPHNDIQAFSRAHRIGONKKVMIYRFVTRASVEERITQVAKKKMMLTHLVVR  
PGLGSKTGSMKQELDDILKFGTEELFKDEATDGGGDNKEGEDSSVIHYDDKAIERLLDRNQDETETELQGMNE  
YLSSFQVQYVVREEEMGEEEEVEREIIKQEESVDPDYWEKLLRHHEEQQEDLARNLGKGRIRKQVNYNDGSQ  
EDRDWQDDQSDNQSDYSVASEEGDEDFDERSEAPRRPSRKGLRNDKDKPLPPLARVGGNIEVLGFNARQRKAF  
NAIMRYGMPPQDAFTTQWLVRDLRGKSEKEFKAYVSLFMRHLCEPGADGAETFADGVPREGLSRQHVLRIGVMS  
LIRKKVQEFHVNGRWSMPELAEVEENKKMSQPGSPSKPTPTPSTPGDTQPNTPAPVPPAEDGKIEENSLKEE  
SIEGEKEVKSTAPETAIECTQAPAPASEDEKVVEPPEGEEKVEKAEVKERTEEPMETEPKGAADVEKVEEKSAI  
DLTPIVEDKEEKEEKEEKEVMLQNGETPKDLNDEKQKKNIKQRFMFNIADGGFTELHSLWQNEERAATVTKKT  
YEIWHRRHDYWLLAGIINHGYARWQDIQNDPRYAILNEPFKGEMNRGNFLEIKNKFLARRFKLLEQALVIEEQLR  
RAAYLNMSDEPSHPSMALNTRFAEVECLAESHQHSKESMAGNKPANAVLHKVLKQLEELLSDMKADVTRLPATI  
ARIPPAVRLQMSERNILSRANRAPEPTPQQVAQQQ



3762/6881  
**FIGURE 3470**

CACCGGCTCGCATCTCCAGCAGAAGGCGCAGCC**ATGA**ATCCGTTATTTCGGCCCCAACCTCTTCCTCCTGCAGCA  
GGAGCAGCAGGGCCTGGCCGGGCCACTGGGGGACTCACTGGGAGGCGACCACTTCGCCGGGGGAGGAGACTTGCC  
CCCGGGCGCTCTCTCGCCGGCCGGCCCTGCTGCCACTCGCCGCCCGGGCCGGGCCCGGCCCGCTGCCGCAT  
GGCCCTCCGCAATGACCTGGGCTCCAACATCAACGTGCTCAAGACCCTGAACCTCCGGTTCCGCTGCTTCCTGGC  
CAAGGTGCATGAGCTGGAGCGCCGGAACCGGCTGTTGGAGAAGCAACTGCAGCAAGCGCTGGAGGAGGTAAGCA  
GGGCCGGCGGGCCTGGGTGTCGCGACAGGCGAGTGCAGACCGGCTTCGTGAGCCCCATCCGGCCCCCTGGGGCT  
GCAGCTGGGCGCCCGCCGGCCGCTGTCTGCAGCCCTTCGGCGCGCTGCTGGGCTCGCCCGCGCGCTCCCCGGC  
CGGCCCCCTCGCGCCCTCCGCGGCCAGCCTCTCGTCGTCTCCACCTCCACCTCCACCACCTATTCTCGTCGGC  
CCGCTTCATGCCCGGCACCATCTGGTCTGTTCTCGCACGCCCGCCGGCTCGGGCCGGGACTGGAGCCCACTCTGGT  
GCAAGGGCCTGGCTTGTCTGGGTGCACCCGGATGGGGTGGGCGTCCAGATCGACACCATCACGCCGAGATCCG  
CGCTCTCTACAACGTGCTGGCCAAAGTGAAGCGGGAGCGGGACGAGTACAAGCGGAGATGCTTTTACAGGGTTAA  
**ATGA**TACCACAAGAGGCAGGGCAGCGGGCTCGACGAGCTCTGTTCTGGTGCGGGCAGGAGGCGGGAGCCCGGATC  
TGTGCGACTGAAGGTGGGAAGAGGAGTACACGGTGCAGTCCAGCTGCAAGACCGTGTAAATGAGCTCCAGGAGG  
AAGCCCAGGAGGCTGATGCTGCCAGGAGGAGCTGGCACTGAAGGTGGAACAGTTGAAGGCTGAGCTGGTGGTCT  
TCAAGGGGCTCATGAGTAACAACCTGTGCGAGCTGGACACCAAGATCCAGGAGAAAGCCATGAAGGTGGATATGG  
ACATCTGCCGCCGCATCGACATCACCGCCAAGCTCTGCGATGTGGCTCAGCAGCGCAACTGCGAGGACATGATCC  
AGATGTTCCAGGTCCCATCCATGGGGGGGCGGAAGCGGGAGCGCAAGGCTGCCGTCGAGGAGGACACCTCCCTGT  
CGGAGAGTGAGGGGCCCCGCCAGCCCGATGGGGATGAGGAGGAGAGCACAGCCCTCAGCATCAACGAGGAGATGC  
AGCGCATGCTCAACCAGCTGAGGGAGTATGATTTTGAGGACGACTGTGACAGCCTGACTTGGGAGGAGACTGAGG  
AGACCTGCTGCTTTGGGAGGATTTCTCAGGCTATGCCATGGCAGCTGCAGAGGCCAGGGAGAGCAGCAGGAAG  
ATAGCCTGGAGAAGGTGATTAAAGATACGGAGTCCCTGTTCAAAACCCGGGAGAAGGAGTATCAGGAGACCATTG  
ACCAGATAGAGCTGGAGTTGGCCACGGCCAAGAACGACATGAACCGGCACCTGCACGAGTACATGGAGATGTGCA  
GCATGAAGCGCGGCTGGACGTGCAGATGGAGACCTGCCCGGGCTCATCACCCAGTCTGGAGACCGAAAGTCTC  
CTGCTTTCACTGCGGTCCCGCTTAGCGACCCGCCCGCCGCCCAAGCGAGGCTGAGGACTCCGATCGCGATGTCT  
CATCTGACAGCTCCATGAGATAGAGACCTGCCTCCCCCTTGACCCGAGGCCCTCGCAGCAGGGAGCTCAGCGAG  
GCAGAGGGTGGGGCTGCACAGAGGGGAACATCAGCTGCAGCTCTGCACCAGGCCGCTCCCTGGGGACTGGGGCGC  
TCCTCCCTCAGGCTTTCTCCCTCAGTCTTGCTTCTCCAGGCTCTGGGGTGTCTGGAGCTAGGCTTGGCCCTAC  
CATTCTGGGGCCATTTCCACCACAGTTGGGGCTCTCCTGCCTTCACGCGTGGGTGTCTGCTACTTCCCCATCTTT  
AAAATGCTGCCAGAGCGATTGCGGCCCTCACCTTGTCACGTATCAGGAATGTGAATGTGGGACCTTTCTCTCCA  
TCCCTGTTGTCCGAGCCAGCTCACTGTCTCCACACTGGTGCTAACTGGCCAGGCACTGGAGTGGAATAGAAT  
GCAGCTGGAGGCTACGCATGGCCTCTGCAGCACACGCAGCTGGAGAGGGCTTCTGTCCCTGTCAGCGGCAGAGGG  
CGTTGGGGCTGGCCGGGGCACCTTGTCCTGCTATGGTCCACATGCTCACGCTGTCCACCTGCCAGGTGGAGTGT  
ATGTGGCTGTGGCCCTCCCTCGTGGAGGTGCCGTGCTTTAAAGAGGCCTTAGTGCCCGGATGGGCACAGTGT  
TGAAGGGAGGTGGGAGCTCTGCTCTCCTGGTCACTGCAGAAATGACAGAGAAGGTGAAGCTCCATGCATGTGTGC  
GCGGGTGTATGTGCGCTCAGGGTCTCTGTTAAGTATCAGCTAAAGATGTGCTTCTCCGTGTCTGTACATACCT  
GAGACCAACAGGCTACAGTGTCCCTGATTCTTGGAAAAGCCTGGAGAAGCTGGGGAGATGCGGTTCACAATGCCT  
CGGTATAGGAGGCTGTGTTGAGCTGACATTCAAATGGATTCTTTAATAATAATGAACTGGCGAGTAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3763/6881  
**FIGURE 3471**

MNPLFGPNLFLQQEQQLAGPLGDSLGGDHFAGGGDLPPAPLSPAGPAAYSPPGPGPAPPAAMALRNDLGSNIN  
VLKTLNLRFRFCFLAKVHELERRNRLLEKQLQQALEEGKQGRRLGRRDQAVQTGFVSPIRPLGLQLGARPAVCS  
PSARVLGSPARSPAGPLAPSAASLSSSSTSTSTTYSSSARFMPGTIWSFSHARRLGPGLEPTIVQGPGLSWVHPD  
GVGVQIDTITPEIRALYNVLAKVKRERDEYKRRCFYRVK

3764/6881  
**FIGURE 3472**

GGTTGAGCACAGGGTACTTTATTGATGGTACATGACAAGGTGCGGCTCCCTAGGCCCCCTCCCCTCTTCAAGGGGT  
CTACATGGCAACTGTGAGGAGGGGAGATTGAGTGTGGTGGGGGACTGAGTGTGGCAGGGACTCCCCAGCAGTGAG  
GGTCTCTCTCTTCTCTTGTGCTCTTGCTGGGGCTGGTGGTCCAGGGGTCTTACTCCTTGGAGGCCATGTGGGCC  
ATGAGGTCCACCACCCTGTTGCTGTAGCCAAATTCGTTGTATACCAGGAAATGAGCTTGACAAAGTGGTCGTTG  
AGGGCAATGCCAGCCCCAGCGTCAAAGGTGGAGGAGTGGGTGTCGCTGTTGAAGTCAGAGGAGACCACCTGGTGC  
TCAGTGTAGCCCAGGATGCCCTTGAGGGGGCCCTCCGACGCCCTGCTTCACCACCTTCTTGATGTCATCATATTTG  
GCAGGTTTTTCTAGACGGCAGGTCAGGTCCACCCTGACACGTTGGCAGTGGGGACACGGAAGGCCATGCCAGTG  
AGCTTCCCGTTCAGCTCAGGGATGACCTTGCCACAGCCTTGGCAGCGCCAGTAGAGGCAGGGATGATGTTCTGG  
AGAGCCCCGCGGCCATCACGCCACAGTTTCCCGGAGGGGCCATCCACAGTCTTCTGGGTGGCAGTGATGGCATGG  
ACTGTGGTCATGAGTCCTTCCACGATACCAAAGTTGTCATGGATGACCTTGGCCAGGGGTGCTAAGCAGTTGGTG  
GTGCAGGAGGCATTGCTGATGATCTTGAGGCTGTGTCATACTTCTCATGGTTCACACCCATGACGAACATGGGG  
GCATCAGCAGAGGGGGCAGAGATGATGACCCTTTTGGCTCCCCCTGCAAATGAACCCAGCCTTCTCCATGGTG  
GTGAAGACGCCAGTGGACTCCACGACGTACTCAGCGCCAGCATCGCCCCACTTGATTTGGAGGGATCTCACTCC  
TGGAAGATGGTGATGGGATTTCCATTGATGACAAGCTTCCCGTTCAGCCTTGACGGTGCCATGGAATTTGCCA  
TGGGTGGAATCATATTGGAACATGTAAACCATGTAGTTGAGGTCAATGAAGGGGTCATTGATGGCAACAATATCC  
ACTTTACCAGAGTTAAAAGCAGCCCTGGTGACCAGGCGCCCAATACGACCAAATCCGTTGACTCCGACCTTCACC  
TTCCCCATGGTGTCTGAGCGATGTGGCTCGGCTGGCGACGCAAAAGAAGATGCGGCTGACTGTCGAAC

3765/6881  
**FIGURE 3473**

CTCTCTGCTCCTCCTGTTGACAGTCAGCCGCATCTTCTTTTGGCTCGCCAGCCGAGCCACATCGCTCAGACACC  
ATGGGGAAGGTGAAGGTCGGAGTCAACGGATTGGTCGTATTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCT  
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTCAACTACATGGTTTACATGTTCCAATATGAT  
TCCACCCATGGCAAATTCCATGGCACCGTCAAGGCTGAGAACGGGAAGCTTGTATCAATGGAAATCCCATCACC  
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTCGTGGAGTCCACTGGC  
GTCTTCACCACCATGGAGAAGGCTGGGGCTCATTTCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT  
GCTGATGCCCCCATGTTCTGTCATGGGTGTGAACCATGAGAAGTATGACAACAGCCTCAAGATCATCAGCAATGCC  
TCCTGCACCACCAACTGCTTAGCACCCCTGGCCAAGGTCATCCATGACAACCTTGGTATCGTGAAGGACTCATG  
ACCACAGTCCATGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCCCTCCGGGAAACTGTGGCGTGATGGCCGC  
GGGGCTCTCCAGAACATCATCCCTGCCTCTACTGGCGCTGCCAAGGCTGTGGGCAAGGTCATCCCTGAGCTGAAC  
GGGAAGCTCACTGGCATGGCCTTCCGTGTCCCACTGCCAACGTGTAGTGGTGGACCTGACCTGCCGTCTAGAA  
AAACCTGCCAAATATGATGACATCAAGAAGGTGGTGAAGCAGGCGTCGGAGGGCCCCCTCAAGGGCATCCTGGGC  
TACACTGAGCACCAGGTGGTCTCCTCTGACTTCAACAGCGACACCCACTCCTCCACCTTTGACGCTGGGGCTGGC  
ATTGCCCTCAACGACCATTGTCAAGCTCATTTCTGGTATGACAACGAATTGGCTACAGCAACAGGGTGGTG  
GACCTCATGGCCACATGGCCTCCAAGGAGTTAAGACCCCTGGACCACCAGCCCCAGCAAGAGCACAAGAGGAAGA  
GAGAGACCCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCACCACACTGAATCTCCCCTCCTCACAGTTG  
CCAATGTAGACCCCTTGAAGAGGGGAGGGGCTAGGGAGCCGCACCTTGTCATGTACCATCAATAAAGTACCCTGT  
GCTCAACC

3766/6881

**FIGURE 3474**

MGKVKVGVNGFGRIGRLVTRAAFNSGKVDIVAINDPFIDLNYMVYMFQYDSTHGKFHGTVKAENGLVINGNPIT  
IFQERDPSKIKWGDAGAEYVVESTGVFTTMEKAGAHLQGGAKRVIISAPSADAPMFVMGVNHEKYDNSLKIISNA  
SCTTNCLAPLAKVIHDNFGIVEGLMTTVHAITATQKTVDGPSGKLWRDGRGALQNIIPASTGAAKAVGKVIPELN  
GKLTGMAFRVPTANVSVDLTCRLEKPAKYDDIKKVVKQASEGPLKGILGYTEHQVSSDFNSDTHSSTFDAGAG  
IALNDHFVKLISWYDNEFGYSNRVVDLMAHMASKE

3767/6881  
**FIGURE 3475A**

AAGTTTTGGAGCGCCGACAAAGCTGAGGTCCGCGACTCGTCGCTAAGATTCCCCAAAAGTGAAGATTCAAGAAAA  
TTCACCCCTTTCCGCTTTCTTTGGCGTCCTTCAACCGTGAAGGAAATGAAGGTTGAGAACCCTGGAACCCGCTTCCA  
ATGACCAAGCCCTTTCTCTGTGCTCACAACAGTCTTCCGCTGTAGCTGTTTTTATTACCCCTATTTTACTACTG  
GGGAGGAGATTGAGGTCCTGAAAGTGAAGTGACTTGCTGGACGTCACCTAGCAGAGGAGATGGCGAAACCTGGA  
TTAGAGGCGATGCCTTTCTAACTCCAGCGTGGACTTGCTCCTTTCTGGGGGTGACTGAATGCCAGCCAGGGA  
CGCGACGTCTCTGGCCAGCAGAAATACGGCCTCCTCCCCGCCGACTGGGCAAAGGGGGACCTTGCGGCCAAGGAG  
GGATTGCGAGGCGGGCCGGGGGTGGGAGCGGGGGCCGGAGCCGGAGCCTTGGCCCGCCCCGGGCGCGCTGTGA  
TTGGCCGGCCGCTCCGGCGGGCGTCGCGATTGGCCGCTCTGCAGCCGTTGAGATTGAAGTCCGTTATTGTGGCT  
TTGCCCGCGCGTTGCCAGACTCAGAGGCGGCCCTTTGCCTCTGCCTGCCGGGGATTGGCCGGATTCTCCGCCGAC  
TTGAAAAGTGCCTTGCTAATTGGTGGCTGTTGTGCACGCGTGTTCCTTTTTCATTTAGCCTGACTGCCGGA  
ATCAGAGCCGCGGGTGAGATCCCAGCCCTGTGAGCCTGTAGGAGTAGAATGGCTCCCCAAATGTATGAGTTCCA  
TCTGCCATTATCCCAGAGGAGTTGTTGAAAAGTGGAGGGGTGAATCAGTATGTTGTGCAAGAGGTACTGTCCAT  
CAAACATCTTCCACCACAGCTTAGAGCTTTTCAGGCTGCCTTTTCAGCTCAGGGGCCCTGGCTATGCTGCAGCA  
CTTTGATACTATCTACAGCATTTCATCATTTCGAAGTATAGATCCTGGCCTCAAAGAAGATACCTGCAATT  
CCTGATAAAAGTGGTATCCCGCCACTCCAGGAGCTTCAGCTATCCTGGATGATACAACTTTGAGTGGATCAGA  
TAGAAACGCCCATCTAAATGCCCTCAAAATGAAGTGTATGCTCTGATACGTCTCCTGGAATCCTTTGAGACCAT  
GGCCAGCCAGACAAACCTTGTGGACCTGGACCTTGGTGGGAAGGTAAGAAAGCTCGGACCAAGGCAGCCCATGG  
CTTTGACTGGGAAGAAGAGAGGCAACCAATTCCTCAGCTTTTAAACAGCTACTTCAGTTGGACATCCGTCACCT  
GTGGAACCACTCAATAATTGAAGAAGAATTTGTGAGTTTGGTTACTGGCTGTTGCTACCGCCTTCTGGAGAATCC  
CACCATTAAATCACCAGAAGAACCAGCCCACTCGGGAAGCCATAACACACCTGCTTGGTGTAGCCTTGACCCGTTA  
TAACCATATGCTCAGTGCTACAGTGAAGATCATCCAGATGCTGCAGCACTTTGAACACCTGGCACCTGTACTGGT  
TGCAGCCGTGAGTCTATGGGCAACTGACTATGGAATGAAGAGCATAGTGGGAGAGATTGTAAGAGAGATTGGACA  
AAAGTGTCCCCAAGAGCTGAGTCGAGACCCCTCAGGGACAAAGGGCTTTGCAGCATTCCTGACAGAACTAGCAGA  
ACGTGTCCCAGCTATCCTGATGTCCAGCATGTGCATTTTGTAGATCACCTGGATGGAGAAAATTACATGATGCG  
TAATGCTGTGCTGGCAGCATGGCGGAGATGGTGTGAGGTTCTCAGTGGCGATCAACTGGAAGCAGCAGCCCG  
AGACACCAGAGACCAGTTCTTGATACCTTTACAAGCCCATGGCCATGATGTCAACTCCTTTGTGCGGAGCCGTGT  
TTTGAGCTCTTACCCGAATTGTCCAGCAGAAGGCTCTCCCCCTGACACGTTTCCAGGCAGTGGTGGCTTTAGC  
TGTGGGACGCTCTGGCAGACAAGTCAGTGCTAGTATGTAAAAATGCCATCCAGCTGCTGGCCAGTTTCTAGCCAA  
TAATCCTTTCTCCTGCAAGCTTAGTGATGCTGACCTTGCCGGACCACTGCAGAAGGAGACCCAGAAATTACAAGA  
GATGAGGGCCAGAGGCGAACTGCAGCAGCTTCTGCAGTGCTGGACCCAGAGGAGGAGTGGGAAGCCATGCTGCC  
AGAGTTGAAGTCTACCTGCAGCAGCTTCTACAGCTTCCCCAGGGAGAGGAGGAGATTCTGAGCAAAATTGCCAA  
TACAGAGACAAGTGAAGATGTGAAAGGACGCATCTATCAACTGCTTGCCAAAGCTAGTTACAAAAGGCCATCAT  
TCTCACTCGAGAAGCCACAGGCCACTTCCAGGAGTCCGAACCTTCAGTCATATAGACCCAGAGGAGTCAGAGGA  
GACCAGGCTCTTGAATATCTTAGGACTTATCTTCAAAGGCCAGCAGCTTCCACACAAGAAAAGAAATCCCCGGGA  
GTCTACAGGAAACATGGTCACAGGACAGACTGTCTGTAAAAATAAACCCAATATGTCGGATCCTGAGGAATCCAG  
GGGAAATGATGAACTAGTGAAGCAGGAGATGCTGGTACAGTATCTGCAGGATGCCTACAGCTTCTCCCGGAAGAT  
TACAGAGGCCATTGGCATCATCAGCAAGATGATGTATGAAAACACAACCTACAGTGGTGCAGGAGGTGATTGAATT  
CTTTGTGATGGTCTTCCAATTTGGGGTACCCAGGCCCTGTTTGGGGTGGCGCGTATGCTGCCTCTCATCTGGTC  
TAAGGAGCCTGGTGTCCGGAAGCCGTGCTTAATGCCTACCGCCAACCTTACCTCAACCCCAAAGGGGACTCTGC  
CAGAGCCAAGGCCAGGCTTTGATTGAGAATCTCTCTGCTGCTAGTGGATGCCTCGGTTGGGACCATTCAGTG  
TCTTGAGGAAATCTCTGTGAGTTTGTGCAGAAGGATGAGTTGAAACCAGCAGTGACCCAGCTGCTGTGGGAGCG  
GGCCACCGAGAAGGTGCGCTGCTGTCTGAGCGCTGTTCCTCTGTCATGCTTCTTGGCATGATGGCAGGAG  
AAAGCCAGAAATTTGTGGGAAGCAATTTAGACACACTGGTGAGCATAGGGCTGGATGAGAAGTTTCCACAGGACTA  
CAGGCTGGCCAGCAGGTGTGCCATGCCATTGCCAACATCTCGGACAGGAGAAAGCCTTCTCTGGGCAACGTCA  
CCCCCCTTCCGGCTGCCTCAGGAACACAGGTTGTTTGAAGGAGTGGGAGACAGTCACAAAAGGCTTTGTCCA  
CCCAGACCCACTCTGGATCCCATTCAAAGAGGTGGCAGTGACCCCTATTTACCAACTGGCAGAGGGCCCCGAAGT  
GATCTGTGCCAGATATTGCAGGGCTGTGCAAAACAGGCCCTGGAGAAGCTAGAAGAGAAGAGAACCAGTCAGGA  
GGACCCGAAGGAGTCCCCCGCAATGCTCCCCACTTTCCTGTTGATGAACCTGCTGTCCCTGGCTGGGGATGTGGC

3768/6881  
**FIGURE 3475B**

TCTGCAGCAGCTGGTCCACTTGGAGCAGGCAGTGAGTGGAGAGCTCTGCCGGCGCCGAGTTCTCCGGAAGAACA  
GGAGCACAAAGACCAAAGATCCCAAGGAGAAGAATACGAGCTCTGAGACCACCATGGAGGAGGAGCTGGGGCTGGT  
TGGGGCAACAGCAGATGACACAGAGGCAGAACTAATCCGTGGCATCTGCGAGATGGAAGTGTGGATGGCAAACA  
GACACTGGCTGCCTTTGTTCCTCTTGGCTTAAAGTCTGTAAACAACCCAGGCCTCTATAGCAACCCAGACCTCTC  
TGCAGCTGCTTCACTTGGCCTTGGCAAGTCTGCATGATCAGTGCCACTTTCTGCGACTCCCAGCTTCGTCTTCT  
GTTCAACATGCTGGAAAAGTCTCCACTTCCCATTGTCCGGTCTAACCTCATGGTTGCCACTGGGGATCTGGCCAT  
CCGCTTTCCCAATCTGGTGGACCCCTGGACTCCTCATCTGTATGCTCGTCTCCGGGACCCTGCTCAGCAAGTGCG  
GAAAACAGCGGGGCTGGTGATGACCCACCTGATCCTCAAGGACATGGTGAAGGTGAAGGGGCAGGTCAGCGAGAT  
GGCGGTGCTGCTCATCGACCCCGAGCCTCAGATTGCTGCCCTGGCCAAGAACTTCTTCAATGAGCTCTCCACAA  
GGGCAACGCAATCTATAATCTCCTTCCAGATATCATCAGCCGCTGTGAGACCCCGAGCTGGGGGTGGAGGAAGA  
GCCTTTCCACACCATCATGAAACAGCTCCTCTCTACATCACCAAGGACAAGCAGACAGAGAGCCTGGTGGAAAA  
GCTGTGTGTCAGCGTTCCGCACATCCCGAACTGAGCGGCAGCAGCGAGACCTGGCCTACTGTGTGTACAGCTGCC  
CCTCACAGAGCGAGGCCTCCGTAAGATGCTTGACAATTTGACTGTTTTGGAGACAAACTGTGAGATGAGTCCAT  
CTTCAGTGCTTTTTTGTGAGTTGTAGGCAAGCTGCGACGTGGGGCCAAGCCTGAGGGCAAGGCTATAATAGATGA  
ATTTGAGCAGAAGCTTCGGGCCTGTCTATACCAGAGGTTTGGATGGAATCAAGGAGCTTGAGATTGGCCAAGCAGG  
TAGCCAGAGAGCGCCATCAGCCAAGAAACCATCCACTGGTTCTAGGTACCAGCCTCTGGCTTCTACAGCCTCAGA  
CAATGACTTTGTACACCAGAGCCCCGCCGTACTACCCGTGCGCATCCAACACCCAGCAGCGAGCTTCCAAAAA  
GAAACCCAAAGTTGTCTTCTCAAGTGATGAGTCCAGTGAGGAAGATCTTTCAGCAGAGATGACAGAAGACGAGAC  
ACCCAAGAAAACAACTCCCATTTCTCAGAGCATCGGCTCGCAGGCACAGATCCTAGGAAGTCTGTTCTGTCTCTCC  
CTGTGCAGGGTATCCTGTAGGGTGACCTGGAATTGCAATTCTGTTTCCCTTGTAATAATTTGTCTGTCTCTTTT  
TTTTAAAAAAAAAAAAAGGCCGGGCACTGTGGCTCAGCCTGTAATCCAGCACTTTGCGATACCAAGCGGGTGG  
ATAACCTGAGGTAGGGAGTTCGAGACCAGCCTGACCAACATGGAGAAACCCATCTCTACTAAAAATAAAAAATT  
AGCCGGGCGTATTGGCGTGGCCTGTAATCCAGCTACTCAAGAGGCTGAGGCAGGAGAATCGCCTGAACCCAGA  
GGCGGAGGTTGTAGTGAGCCGAAATCACACCATTGCACTCCAGCTTGGGCAACAATAGCGAACCTCCATCTCAAA  
TAAAAAAAAAATGCCTACACGCTCTTTAAATGCAAGGCTTCTCTTAAATTAGCCTAACTGAACTGCGTTGAG  
CTGCTTCACTTTGGAATATATGTTTGCCAATCTCCTTGTTTTCTAATGAATAAATGTTTTATATACTTTT

3769/6881  
**FIGURE 3476**

GCCCTGGAGGCCCGCCTGGCCGCTCCCGGCCCTGGGGTGACATCGGCCCTGAGTCCCGTCCCAGGCTCTGGGC  
TCGGGCAGCCGCCGCCACCGCTGCCCAGGACGTGGGGCTCCTGCCTTCTCCCAGGCCCCACGTTGCTGGCCG  
CCTGGCCGAGTGGCCGCCATGCTCCTGCCTTGGGGCACCTCTGCCCCGGCCTGGCCTGGGGGCTCTGGTGCTG  
GGCCTCTTCGGGCTCCTGGCAGCATCGAGCCCCAGGCGGTGCCTCCATATGCGTCGGAGAACCAGACCTGCAGG  
GACCAGGAAAAGGAATACTATGAGCCCCAGCACCGCATCTGCTGCTCCCGCTGCCCGCCAGGCACCTATGTCTCA  
GCTAAATGTAGCCGCATCCGGGACACAGTTTGTGCCACATGTGCCGAGAATTCCTACAACGAGCACTGGAACCTAC  
CTGACCATCTGCCAGCTGTGCCGCCCTGTGACCCAGTGATGGGCCTCGAGGAGATTGCCCCCTGCACAAGCAAA  
CGGAAGACCCAGTGCCGCTGCCAGCCGGAATGTTCTGTGCTGCCTGGGCCCTCGAGTGTACACACTGCGAGCTA  
CTTTCTGACTGCCCGCTGGCACTGAAGCCGAGCTCAAAGATGAAGTTGGGAAGGGTAACAACCCTGCGTCCCC  
TGCAAGGCAGGGCACTTCCAGAATACCTCCTCCCCAGCGCCCGCTGCCAGCCCCACACCAGGTGTGAGAACC  
GGTCTGGTGGAGGACGTCCAGGCCTGCCAGTCCGACACAACCTGCAAAAATCCATTAGAGCCACTGCCCCCA  
GAGATGTCAGGAACCATGCTGATGCTGGCCGTTCTGCTGCCACTGGCCTTCTTTCTGCTCCTTGCCACCGTCTTC  
TCTGTCATCTGGAAGAGCCACCCTTCTCTCTGAGGAACTGGGATCGTCTCAAGAGGCGTCCGCAGGGAGAG  
GGACCCAATCCTGTAGCTGGAAGCTGGGAGCCTCCGAAGGCCCATCCATACTTCCCTGACTTGGTACAGCCACTG  
CTACCCATTTCTGGAGATGTTTCCCCAGTATCCACTGGGCTCCCCGCAGCCCCAGTTTTGGAGGCAGGGGTGCCG  
CAACAGCAGAGTCTCTGGACCTGACCAGGGAGCCGAGTTGGAACCCGGGGAGCAGAGCCAGGTGGCCACGGT  
ACCAATGGCATTCAATGTACCGGCGGGTCTATGACTATCACTGGCAACATCTACATCTACAATGGACCACTG  
GGGGGACCACCGGGTCTCTGGAGACCTCCAGCTACCCCCGAACCTCCATACCCCATTCGGAAGAGGGGGACCT  
GGCCCTCCCGGGCTCTCTACACCCCAACAGGAAGATGGCAAGGCTTGGCACCTAGCGGAGACAGACACTGTGGT  
GCCACACCCTCTAACAGGGGCCCAAGGAACCAATTTATACCCATGACTGACGGAGTCTGAGAAAAGGCAGAAGA  
AGGGGGGCACAAGGGCACTTTCTCCCTTGAGGCTGCCCTGCCACGTTGGGATTACAGGGGCTGAGTAGGGCCC  
GGGGAAGCAGAGCCCTAAGGGATTAAGGCTCAGACACCTCTGAGAGCAGGTGGGCCTGGGTACGGTGGCC  
TCCACAGGACTCTCCCTACTGCCTGAGCAAACCTGAGGCCTCCCGGCAGACCCACCCACCCCTGGGGCTGCTCA  
GCCTCAGGCACGGACAGGGCACATGATACCAACTGCTGCCCCACTACGGCACGCCGCACCGGAGCACGGCACCGAG  
GGAGCCGCCACACGGTCACCTGCAAGGACGTACGGGGCCCTCTAAAGGATTTCGTGGTGTCTATCCCCAAGCTTC  
AGAGACCCTTTGGGGTTCCACACTTCACGTGGACTGAGGTAGACCCTGCATGAAGATGAAATTATAGGGAGGACG  
CTCCTTCCCTCCCTCCTAGAGGAGAGGAAAGGGAGTCATTAACAACCTAGGGGGTTGGGTAGGATTCTAGGTAT  
GGGGAAGAGTTTTGGAAGGGGAGGAAAATGGCAAGTGTATTTATATTGTAACCACATGCAATAAAAAGAATGGG  
ACCTAAACTCGTGCCGCTCGTGCCGAATTCCTGCAG



3770/6881  
**FIGURE 3477**

MLLPWATSAPGLAWGPLVLGLFGLLAASQPQAVPPYASENQTCRDQEKEYYEPQHRICCSRCPPGTYYVSAKCSRI  
RDTVCAATCAENSYNEHWNLTICQLCRPCDPVMGLEEIAPCTSKRKTQCRCQPGMFCAAWALECTHCELLSDCPP  
GTEAELKDEVGKGNNHCVPCKAGHFQNTSSPSARCQPHTRCENQGLVEAAPGTAQSDTTCKNPLEPLPPMSGTM  
LMLAVLLPLAFFLLLATVFSKIWKSHPSLCRKLGSLLKRRPQGEQPNPVAGSWEPPKAHPYFPDLVQPLLPISGD  
VSPVSTGLPAAPVLEAGVPQQSPDLTREPQLEPGEQSQVAHGTINGIHVTGGSMITIGNIYYNGPVLGGPPGP  
GDLPATPEPPYPIPEEGDPGPPGLSTPHQEDGKAHHLAETEHCGATPSNRGPRNQFITHD

3771/6881  
**FIGURE 3478**

CCGGCCAGCGGGCGGGCTCCCCAGCCAGGCCGCTGCACCTGTCAGGGGAACAAGCTGGAGGAGCAGGACCCTAGA  
CCTCTGCAGCCCATAACCAGGTCTCATGGAGGGGAACAAGCTGGAGGAGCAGGACTCTAGCCCTCCACAGTCCACT  
CCAGGGCTCATGAAGGGGAACAAGCGTGAGGAGCAGGGGCTGGGCCCCGAACCTGCGGCGCCCCAGCAGCCCACG  
GCGGAGGAGGAGGCCCTGATCGAGTTCCACCGCTCCTACCGAGAGCTCTTCGAGTTCTTCTGCAACAACACCACC  
ATCCACGGCGCCATCCGCTGGTGTGCTCCAGCACAAACGCATGAAGACGGCCTTCTGGGCAGTGCTGTGGCTC  
TGCACCTTTGGCATGATGTACTGGCAATTCGGCCTGCTTTTCGGAGAGTACTTCAGCTACCCCGTCAGCCTCAAC  
ATCAACCTCAACTCGGACAAGCTCGTCTTCCCCGAGTGACCATCTGCACCCTCAATCCCTACAGGTACCCGGAA  
ATTAAAGAGGAGCTGGAGGAGCTGGACCGCATCACAGAGCAGACGCTCTTTGACCTGTACAAATACAGCTCCTTC  
ACCACCTCTCGTGGCCGGCTCCCGCAGCCGTGCGACCTGCGGGGACTCTGCCGACCCCTTGACGCGCCTGAGG  
GTCCCCCCCCCGCTCACGGGGGCCGTCGAGCCCGTAGCGTGGCTCCAGCTTGCGGGACAACAACCCCCAGGTG  
GACTGGAAGGACTGGAAGATCGGCTTCCAGCTGTGCAACCAGAACAATCGGACTGCTTCTACCAGACATACTCA  
TCAGGGGTGGATGCGGTGAGGGAGTGGTACCGCTTCCACTACATCAACATCCTGTGAGGCTGCCAGAGACTCTG  
CCATCCCTGGAGGAGACACGCTGGGCAACTTCATCTTCGCTGCCGCTTCAACCAGGTCTCTGCAACCAGGCG  
AATTACTCTCACTCCACCACCCGATGTATGGAACCTGCTATACTTTCAATGACAAGAACAACCTCAACCTCTGG  
ATGTCTTCCATGCCGTGGAATCAACAACGGTCTGTCCCTGATGCTGCGCGCAGAGCAGAATGACTTCATTCCCTG  
CTGTCCACAGTGACTGGGGCCCGGTAATGGTGCACGGGCAGGATGAACCTGCCTTTATGGATGATGGTGGCTTT  
AACTTGCGGCCTGGCGTGGAGACCTCCATCAGCATGAGGAAGGAACCCCTGGACAGACTTGGGGGCGATTATGGC  
GACTGCACCAAGAATGGCAGTGATGTTCTGTTGAGAACCTTTACCCTCAAAGTACACACAGCAGGTGTGTATT  
CACTCCTGCTTCCAGGAGAGCATGATCAAGGAGTGTGGCTGTGCCTACATCTTCTATCCGCGGCCCCAGAACGTG  
GAGTACTGTGACTACAGAAAGCACAGTTCTTGGGGGTACTGCTACTATAAGCTCCAGGTTGACTTCTCTCAGAC  
CACCTGGGCTGTTTACCAAGTGCCGAAGCCATGCAGCGTGACCAGTACCAGCTCTCTGCTGGTTACTCACGA  
TGCCCTCGGTGACATCCCAGGAATGGGTCTTCCAGATGCTATCGCGACAGAACAATTACACCGTCAACAACAAG  
AGAAATGGAGTGGCCAAAGTCAACATCTTCTTCAAGGAGCTGAACCTACAAAACCAATTCTGAGTCTCCCTCTGTC  
ACGATGGTCACCTCCTGTCCAACCTGGGCAGCCAGTGAGCCTGTGTTTCGGCTCCTCGGTGTTGTCTGTGGTG  
GAGATGGCTGAGCTCGTCTTTGACCTGCTGGTCACTGTTCTCTCATGCTGCTCCGAAGGTTCCGAAGCCGATAC  
TGGTCTCCAGGCCGAGGGGGCAGGGGTGCTCAGGAGGTAGCCTCCACCCTGGCATCCTCCCTCCTTCCCACTTC  
TGCCCCACCCCATGTCTCTGTCTTGTCCAGCCAGGCCCTGCTCCCTCTCCAGCCTTGACAGCCCCCTCCCCCT  
GCCTATGCCACCTGGGCCCCCGCCATCTCCAGGGGCTCTGCAGGGGCCAGTTCCCTCCACCTGTCTCTGGGG  
GGGCCCCTGAGAGGGAAGGAGAGGTTTCTCACACCAAGGCAGATGCTCCTCTGGTGGGAGGGTGCTGGCCCTGGCA  
AGATTGAAGGATGTGCAGGGCTTCCTCTCAGAGCCGCCAAACTGCCGTTGATGTGTGGAGGGGAAGCAAGATGG  
GTAAGGGCTCAGGAAGTTGCTCCAAGAACAGTAGCTGATGAAGCTGCCCAGAAGTGCTTGGCTCCAGCCCTGTA  
CCCCTTGGTACTGCCTCTGAACACTCTGGTTTTCCCCACCCAAGTGCAGGCTAAGTCTCTTTTTCCCTTGGATCAGC  
CAAGCGAAACTTGGAGCTTTGACAAGGAACCTTCCCTAAGAAACCGCTGATAACCAGGACAAAACACAACCAAGGG  
TACACGCAGGCATGCACGGGTTTCTGCCCAGCGACGGCTTAAGCCAGCCCCGACTGGCCTGGCCACACTGCTC  
TCCAGTAGCACAGATGTCTGCTCCTCCTCTTGAACCTTGGGTGGGAAACCCACCCAAAAGCCCCCTTTGTTACTT  
AGGCAATTCCCTTCCCTGACTCCCGAGGGCTAGGGCTAGAGCAGACCCGGGTAAGTAAAGGCAGACCCAGGGCT  
CCTCTAGCCTCATACCCGTGCCCTCACAGAGCCATGCCCCGGCACCTCTGCCCTGTGCTTTTCATACCTCTACAT  
GTCTGCTTGAGATATTTCTCAGCCTGAAAGTTTCCCCAACCATCTGCCAGAGAACTCCTATGCATCCCTTAGAA  
CCCTGCTCAGACACCATTACTTTTGTGAACGCTTCTGCCACATCTTGCTTCTCCCCAAAATTGATCACTCCGCCTT  
CTCCTGGGCTCCCGTAGCACACTATAACATCTGCTGGAGTGTGCTGTTGCACCATACTTTCTTGTACATTTGTG  
TCTCCCTTCCCACTAGACTGTAAGTGCCTTGGCGTCAGGGACTGAATCTTGCCCGTTTATGTATGCTCCATGTC  
TAGCCCATCATCTGCTTGGAGCAAGTAGGCAGGAGCTCAATAAATGTTTGTGTCATGAAAAAAAAAAAAAAAAA  
A

3772/6881

**FIGURE 3479**

MEGNKLEEQDSSPPQSTPGLMKGNKREEQGLGPEPAAPQQPTAEELIEFHRSYRELFEFFCNNTTIHGAIRLV  
CSQHNRMKTAFWAVLWLCTFGMMYWQFGLLFGEYFSYPVSLNINLNSDKLVFPVAVTICTLNPYRYPEIKEELEEL  
DRITEQTLFDLYKYSSFTTLVAGSRSRDLRGTLPHPLQRLRVPPPHGARRARSVASSLRDNNPQVDWKDWKIG  
FQLCNQNKSDCFYQTYSSGVDVREWYRFHYINILSRLPETLPSLEEDTLGNFIFACRFNQVSCNQANYSHFHHF  
MYGNCYTFNDKNNNSNLWMSSMPGINNGLSLMLRAEQNDFIPLLSTVTGARVMVHGQDEPAFMDDGGFNLRPGVET  
SISMRKETLDRLGGDYGDCTKNGSDVPVENLYPSKYTQQVCIHSCFQESMIKECGCAYIFYPRPQNVEYCDYRKH  
SSWGICYKYLQVDFSSDHLGCFTKCRKPCSVTSYQLSAGYSRWPSVTSQEWVFQMLSRQNNYTVNNKRVAKVN  
IFFKELNYKTNSESPSVTMTLLSNLGSQWSLWFGSSVLSVVEAELVFDLLVIMFLMLLRFRSRYWSPGRGGR  
GAQEVASTLASSPPSHFCPPMSLSLSQPGPAPSPALTAPPPAYATLGPRPSPGGSAGASSSTCPLGGP

3773/6881  
**FIGURE 3480**

CGGCCCAGTGATCTTGAACCCCAAAGGCCAGAACTGGAGCCTCAGTCCAGAGAATTCTGAGAAAATTAAAGCAGA  
GAGGAGGGGAGAGATCACTGGGACCAGGCCGTGATCTCTATGCCCGAGTCTCAACCCCTCAACTGTCACCCCAAGG  
CACTTGGGACGTCTGGACAGACCGAGTCCCGGGAAGCCCCAGCACTGCCGCTGCCACACTGCCCTGAGCCCAAA  
TGGGGGAGTGAGAGGCCATAGCTGTCTGGCATGGGCCTCTCCACCGTGCCTGACCTGCTGCTGCCGCTGGTGCTC  
CTGGAGCTGTTGGTGGGAATATACCCCTCAGGGGTTATTGGACTGGTCCCTCACCTAGGGGACAGGGAGAAGAGA  
GATAGTGTGTGTCCTCAAGGAAAATATATCCACCCCTCAAATAATTGATTGCTGTACCAAGTGCCACAAAGGA  
ACCTACTTGTACAATGACTGTCCAGGCCCGGGCAGGATACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACC  
GCTTCAGAAAACCACCTCAGACACTGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTGAGGTGGAGATCTCT  
TCTTGACAGTGGACCGGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAACCTT  
TTCCAGTGTCTCAATTGCAGCCTCTGCCTCAATGGGACCGTGCACCTCTCCTGCCAGGAGAAACAGAACACCGTG  
TGCACCTGCCATGCAGGTTTCTTTCTAAGAGAAAACGAGTGTGTCTCTGTAGTAAGTAAAGAAAGCCTGGAG  
TGCACGAAGTTGTGCTACCCAGATTGAGAATGTTAAGGGCACTGAGGACTCAGGCACCACAGTGTGTTGCC  
CTGGTCATTTCTTTGGTCTTTGCCTTTTATCCCTCCTCTTCATTGGTTTAAATGTATCGCTACCAACGGTGGAA  
TCCAAGCTCTACTCCATTGTTTGTGGGAAATCGACACCTGAAAAAGAGGGGGAGCTTGAAGGAAGTACTACTAAG  
CCCCTGGCCCCAAACCAAGCTTCAGTCCCACTCCAGGCTTCACCCCCACCCTGGGCTTCAGTCCCGTCCCCAGT  
TCCACCTTCACCTCCAGCTCCACCTATACCCCCGGTGACTGTCCCAACTTTGCGGCTCCCCGCAGAGAGGTGGCA  
CCACCTATCAGGGGGCTGACCCCATCCTTGCGACAGCCCTCGCCTCCGACCCCATCCCCAACCCCTTCAGAAG  
TGGGAGGACAGCGCCACAAGCCACAGAGCCTAGACACTGATGACCCCGCGACGCTGTACGCCGTGGTGGAGAAC  
GTGCCCCCGTTGCGCTGGAAGGAATTCGTGCGGCGCCTAGGGCTGAGCGACCACGAGATCGATCGGCTGGAGCTG  
CAGAACGGGCGCTGCCTGCGCGAGGCGCAATACAGCATGCTGGCGACCTGGAGGCGGCGCACGCCGCGGCGCGAG  
GCCACGCTGGAGCTGCTGGGACGCGTGCTCCGCGACATGGACCTGTGGGCTGCCTGGAGGACATCGAGGAGGCG  
CTTTGCGGGCCCCCGCCCTCCCGCCCGCGCCAGTCTTCTCAGATGAGGCTGCGCCCTGCGGGCAGCTCTAAG  
GACCGTCTGCGAGATCGCCTTCCAACCCCACTTTTTCTGGAAGGAGGGGTCTGAGGGGCAAGCAGGAGCT  
AGCAGCCGCTACTTGGTGCTAACCCCTCGATGTACATAGCTTTTCTCAGCTGCCTGCGCGCCGCGACAGTCAG  
CGCTGTGCGCGCGGAGAGAGGTGCGCCGTGGGCTCAAGAGCCTGAGTGGGTGGTTTTCGAGGATGAGGGACGCTA  
TGCTCATGCCGTTTTTGGGTGTCTCACCAGCAAGGCTGTCTGGGGGCCCCCTGGTTCTGTCCTGAGCCTTTTTC  
ACAGTGATAAGCAGTTTTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTTAAATCAATCATGTTACACTAATAGA  
AACTTGGCACTCCTGTGCCCTCTGCTGGACAAGCACATAGCAAGCTGAACTGTCTAAGGCAGGGGCGAGCAGC  
GAACAATGGGGCCTTCAGCTGGAGCTGTGGACTTTTGTACATACACTAAAATTCTGAAGTT

3774/6881  
**FIGURE 3481**

MGLSTVPDLLLPLVLLELLVGIYPSGVIGLVPHLGDREKRDVCPQGKYIHPQNN SICCTKCHKGTLYNDCPGP  
GQDTCRECESGSFTASENHLRHCLSCSKCRKEMGQVEISSCTVDRD TVCGCRKNQYRHYWSENLFQCFNCSLCL  
NGTVHLSCQEKQNTVCTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIENVKGTEDSGTTVLLPLVIFFGLCIL  
SLLFIGLMYRYQRWKSPLYIVCGKSTPEKEGELEGTTTKPLAPNPSFSPTPGFTPTLGFSPVPSSTFTSSSTYT  
PGDCPNFAAPRREVAPPYQGADPILATALASDPINPLQKWEDSAHKPQSLD TDDPATLYAVVENVPPLRWKEFV  
RRLGLSDHEIDRLELQNGRCLREAQYSMLATWRRRTPRREATLELLGRVLRDMDLLGCLEDIEEALCGPAALPPA  
PSLLR

3775/6881  
**FIGURE 3482A**

GGGGACTTCCAGAATGGCAAGAGAGTGAGCCTCTCCGTGTATCTTGGGGAATTTTTTGACATCCATTGTTTGTCT  
AATGGTACCGTGACACAGGGGGACCAAAGAGTCTCCATGCCCTATGCCTCCAAAGGGCTGTATCTAGAAACTGAG  
GCTGGGTACTACAAGCTGTCCGGTGAGGCCTATGGCTTTGTGGCCAGGATCGATGGCAGCGGCAACTTTCAAGTC  
CTGCTGTGACAGACATACTTCAACAAGACCTGCGGGCTGTGTGGCAACTTTAACATCTTTGCTGAAGATGACTTT  
ATGACCCAAGAAGGGACCTTGACCTCGGACCCTTATGACTTTGCCAACTCATGGGCTCTGAGCAGTGGAGAACAG  
TGGTGTGAACGGGCATCTCCTCCCAGCAGCTCATGCAACATCTCCTCTGGGGAATGCAGAAGGGCCTGTGGGAG  
CAGTGCCAGCTTCTGAAGAGCACCTCGGTGTTTGGCCGCTGCCACCCTCTGGTGGACCCCGAGCCTTTTGTGGCC  
CTGTGTGAGAAGACTTTGTGTGAGTGTGCTGGGGGCTGGAGTGCCTGCCCCTGCCCTCCTGGAGTACGCCCCG  
ACCTGTGCCAGGAGGGAATGGTGTGTACGGCTGGACCGACCACAGCGCTGCAGCCAGTGTGCCCTGCTGGT  
ATGGAGTATAGGCAGTGTGTGTCCCTTGGCCAGGACCTGCCAGAGCCTGCACATCAATGAAATGTGTGAGGAG  
CGATGCGTGGATGGCTGCAGCTGCCCTGAGGGACAGCTCCTGGATGAAGGCCTCTGCGTGGAGAGCACCGAGTGT  
CCCTGCGTGCATTCCGGAAGCGCTACCCTCCCGGCACCTCCCTCTCTCGAGACTGCAACCTGCATTGTCCGA  
AACAGCCAGTGGATCTGCAGCAATGAAGAATGTCCAGGGGAGTGCCTTGTACAGGTCAATCACACTTCAAGAGC  
TTTGACAACAGATACTTACCTTCAGTGGGATCTGCCAGTACCTGCTGGCCCGGGATTGCCAGGACCACTCCTTC  
TCCATTGTCAATTGAGACTGTCCAGTGTGCTGATGACCGCAGCCTGTGTGCACCCGCTCCCTCACCGTCCGGCTG  
CCTGGCCTGCACAACAGCCTTGTGAACTGAAGCATGGGGCAGGAGTGGCATGGATGGCCAGGACGTCCAGCTC  
CCCCCTCTGAAAGGTGACCTCCGCATCCAGCATAAGTACGGCCCTCCGTGCGCCTCAGCTACGGGGAGGACCTG  
CAGATGGACTGGGATGGCCGCGGGAGGCTGCTGGTGAAGCTGTCCCCCTCTATGCCGGGAAGACCTGCGGCCCTG  
TGTGGGAATTACAATGGCAACCAGGGCGACGACTTCCTTACCCCTCTGGGCTGGCGGAGCCCCGGGTGGAGGAC  
TTCGGGAACGCTGGAAGCTGCACGGGGACTGCCAGGACCTGCAGAAGCAGCACAGCGATCCCTGCGCCCTCAAC  
CCGCGCATGACCAGTTCTCCGAGGAGGCTGCGCGGTCTGACGTCCCCCACATTGAGGCTGCCATCGTGCC  
GTCAGCCCGCTGCCCTACCTGCGGAACGCGCTACGACGTGTGCTCCTGCTCGGACCGCCGCGAGTGCCTGTGC  
GGCGCCCTGGCCAGCTATGCCGCGGCTGCGCGGGGAGAGGCTGCGCGTTCGCTGGCGCGAGCCAGGCCGCTGT  
GAGCTGAACCTGCCCCGAAAGGCCAGGTGTACCTGCAGTGCGGGACCCCTGCAACCTGACCTGCCGCTCTCTCTCT  
TACCCGGATGAGGAATGCAATGAGGCCTGCCTGGAGGGCTGCTTCTGCCCCCAGGGCTCTACATGGATGAGAGG  
GGGACTGCGTGCCCAAGGCCAGTGCCCTGTTACTATGACGGTGAGATCTTCCAGCCAGAAGACATCTTCTCA  
GACCATCACACCATGTGCTACTGTGAGGATGGCTTCATGCACTGTACCATGAGTGGAGTCCCCGGAAGCTTGCTG  
CCTGACGCTGTCTCAGCAGTCCCCTGTCTCATCGCAGCAAAAGGAGCCTATCCTGTGGCCCCCATGGTCAAG  
CTGGTGTGTCCGCTGACAACCTGCGGGCTGAAGGGCTCGAGTGTACAAAACGTGCCAGAATATGACCTGGAG  
TGCATGAGCATGGGCTGTGTCTCTGGCTGCCCTTGCCCCCGGGCATGGTCCGGCATGAGAACAGATGTGTGGCC  
CTGGAAAGGTGTCCCTGTCTCCATCAGGGCAAGGAGTATGCCCTGGAGAAACAGTGAAGATTGGCTGCAACACT  
TGTGTCTGTGAGGACCGGAAGTGAAGTGCACAGACCATGTGTGTGATGCCACGTGCTCCACGATCGGCATGGCC  
CACTACCTCACCTTCGACGGGCTCAAATACCTGTTCCCCGGGGAGTGCCAGTACGTTCTGGTGCAGGATTACTGC  
GGCAGTAACCTGGGACCTTTCGGATCCTAGTGGGAATAAGGGATGCAGCCACCCCTCAGTGAATGCAAGAAA  
CGGGTCACCATCCTGGTGGAGGGAGGAGAGATTGAGCTGTTTGACGGGGAGGTGAATGTGAAGAGGCCCATGAAG  
GATGAGACTCACTTTGAGGTGGTGGAGTCTGGCCGTTACATATTCTGTCTGCTGGGCAAAGCCCTCTCCGTGGTC  
TGGGACCGCCACCTGAGCATCTCCGTGGTCTGAAGCAGACATACCAGGAGAAAGTGTGTGGCCTGTGTGGGAAT  
TTTGATGGCATCCAGAACAATGACCTCACCAGCAGCAACCTCCAAGTGGAGGAAGACCCTGTGGACTTTGGGAAC  
TCCTGGAAAGTGAGCTCGCAGTGTGCTGACACCAGAAAAGTGCCTCTGGACTCATCCCTGCCACCTGCCATAAC  
AACATCATGAAGCAGACGATGGTGGATTCTCCTGTAGAATCCTTACCAGTGACGTTTCCAGGACTGCAACAAG  
CTGGTGGACCCGAGCCATACTGGATGTCTGCATTACGACACCTGCTCCTGTGAGTCCATTGGGGACTGCGCC  
TGCTTCTGCGACACCATTTGCTGCCTATGCCACGCTGTGTGCCAGCATGGCAAGGTGGTGACCTGGAGGACGGCC  
ACATTGTGCCCCAGAGCTGCGAGGAGAGGAATCTCCGGGAGAACGGGTATGAGTGTGAGTGGCGCTATAACAGC  
TGTGCACCTGCCGTGTCAAGTCACGTGTGAGCACCCTGAGCCACTGGCCTGCCCTGTGCAGTGTGTGGAGGGCTGC  
CATGCCCACTGCCCTCCAGGGAAAATCCTGGATGAGCTTTTGACAGACCTGCGTTGACCCTGAAGACTGTCCAGTG  
TGTGAGGTGGCTGGCCGGCGTTTTGCCCTCAGGAAAGAAAGTCACCTTGAATCCAGTGACCCTGAGCACTGCCAG  
ATTTGCCACTGTGATGTTGTCAACCTCACCTGTGAAGCCTGCCAGGAGCCGGGAGGCTGGTGGTGCCTCCACA  
GATGCCCCGGTGAGCCCCACCACTCTGTATGTGGAGGACATCTCGGAACCGCGTTGCACGATTCTACTGCAGC

3776/6881  
**FIGURE 3482B**

AGGCTACTGGACCTGGTCTTCTGCTGGATGGCTCCTCCAGGCTGTCCGAGGCTGAGTTTGAAGTGCTGAAGGCC  
TTTGTGGTGGACATGATGGAGCGGCTGCGCATCTCCAGAAGTGGGTCCGCGTGGCCGTGGTGGAGTACCACGAC  
GGCTCCACGCCTACATCGGGCTCAAGGACCGGAAGCGACCGTCAGAGCTGCGGCGCATTGCCAGCCAGGTGAAG  
TATGCGGGCAGCCAGGTGGCTCCACCAGCGAGGTCTTGAATACACACTGTTCCAAATCTTCAGCAAGATCGAC  
CGCCCTGAAGCCTCCCGCATCACCTGCTCCTGATGGCCAGCCAGGAGCCCCAACGGATGTCCCGGAACCTTTGTC  
CGCTACGTCCAGGGCCTGAAGAAGAAGAAGTTCATTGTGATCCCGTGGGCATTGGGCCCCATGCCAACCTCAAG  
CAGATCCGCTCATCGAGAAGCAGGCCCCCTGAGAACAAGGCCTTCGTGCTGAGCAGTGTGGATGAGCTGGAGCAG  
CAAAGGGACGAGATCGTTAGCTACCTCTGTGACCTTGCCCTGAAGCCCCCTCCTCTACTCTGCCCCCGACATG  
GCACAAGTCACTGTGGGCCCCGGGGCTCTTGGGGGTTTCGACCCTGGGGCCCAAGAGGAACTCCATGGTTCTGGAT  
GTGGCGTTCGTCTGGAAGGATCGGACAAAATTGGTGAAGCCGACTTCAACAGGAGCAAGGAGTTCATGGAGGAG  
GTGATTCAGCGGATGGATGTGGGCCAGGACAGCATCCACGTACCGTGCTGCAGTACTCCTACATGGTGAAGTGTG  
GAGTACCCCTTCAGCGAGGCACAGTCCAAAGGGGACATCCTGCAGCGGGTGCAGAGATCCGCTACCAGGGCGGC  
AACAGGACCAACTGGGCTGGCCCTGCGGTACCTCTCTGACCACAGCTTCTTGGTCAGCCAGGGTGACCGGGAG  
CAGGCGCCCAACCTGGTCTACATGGTCACCGGAAATCCTGCCTCTGATGAGATCAAGAGGCTGCCTGGAGACATC  
CAGGTGGTGGCCATTGGAGTGGGCCCTAATGCCAACGTGCAGGAGCTGGAGAGGATTGGCTGGCCCAATGCCCT  
ATCCTCATCCAGGACTTTGAGACGCTCCCCGAGAGGCTCCTGACCTGGTGTGCTGCAGAGGTGCTGCTCCGGAGAG  
GGGCTGCAGATCCCCACCTCTCCCTGCACCTGACTGCAGCCAGCCCCCTGGACGTGATCCTTCTCCTGGATGGC  
TCCTCCAGTTTCCAGCTTCTTATTTGATGAATGAAGAGTTTCGCCAAGGCTTTTCAATTTCAAAGCCAAATATA  
GGGCTCGTCTCACTCAGGTGTGAGTGTGAGTATGGAAGCATCACCACCATTGACGTGCCATGGAACGTGGTC  
CCGGAGAAAGCCATTGCTGAGCCTTGTGGACGTATGCAGCGGGAGGGAGGCCCCAGCCAAATCGGGGATGCC  
TTGGGCTTTGCTGTGCGATACTTGACTTCAGAAATGCATGGTGCCAGGCCGGGAGCCTCAAAGGCGGTGGTCATC  
CTGGTCACGGACGTCTCTGTGGATTGAGTGGATGCAGCAGCTGATGCCGCCAGGTCCAACAGAGTGACAGTGTTT  
CCTATTGGAATTGGAGATCGCTACGATGCAGCCAGCTACGGATCTTGGCAGGCCAGCAGGCGACTCCAACGTG  
GTGAAGCTCCAGCGAATCGAAGACCTCCCTACCATGGTCACCTTGGGCAATTCCTTCTCCACAACTGTGCTCT  
GGATTGTAGGATTGATGGATGAGGATGGGAATGAGAAGAGGCCCGGGACGTCTGGACCTTGCCAGACCAG  
TGCCACACCGTGACTTGCCAGCCAGATGGCCAGACCTTGCTGAAGAGTCAATCGGGTCAACTGTGACCGGGGGCTG  
AGGCCTTCGTGCCCTAACAGCCAGTCCCTGTTAAAGTGAAGAGACCTGTGGCTGCCGCTGGACCTGCCCTGT  
GTGTGCACAGGCAGTCCACTCGGCACATCGTGACCTTTGATGGGCAGAAATTTCAAGCTGACTGGCAGCTGTCT  
TATGTCTATTTCAAACAAGGAGCAGGACCTGGAGGTGATTCTCCATAATGGTGCCTGCAGCCCTGGAGCAAGG  
CAGGGCTGCATGAAATCCATCGAGGTGAAGCACAGTGCCCTCTCCGTCGAGCTGCACAGTGACATGGAGGTGACG  
GTGAATGGGAGACTGGTCTCTGTTTCTTACGTGGGTGGGAACATGGAAGTCAACGTTTATGGTGCCATCATGCAT  
GAGGTGAGATTCAATACCTTGGTCACATCTTACATTCACTCCACAAACAATGAGTTCCAAGTGCAGCTCAGC  
CCCAAGACTTTTGCTTCAAAGACGTATGGTCTGTGTGGGATCTGTGATGAGAACGGAGCCAATGACTTTCATGCTG  
AGGGATGGCACAGTCAACACAGACTGGAAAACACTTGTTCAGGAATGGACTGTGCAGCGGCCAGGGCAGACGTGC  
CAGCCCATCCTGGAGGAGCAGTGTCTTGTCCCCGACAGTCCCACTGCCAGGTCTCCTCTTACCAGTGTGTTGCT  
GAATGCCACAAGGTCTTGCTCCAGCCACATTCTATGCCATCTGCCAGCAGGACAGTTGCCACCAGGAGCAAGTG  
TGTGAGGTGATCGCCTCTTATGCCACCTCTGTGCGACCAACGGGGTCTGCGTTGACTGGAGGACACCTGATTTT  
TGTGCTATGTGATGCCACCATCTCTGGTCTACAACCACTGTGAGCATGGCTGTCCCCGGCACTGTGATGGCAAC  
GTGAGCTCCTGTGGGGACCATCCCTCCGAAGGCTGTTTCTGCCCTCCAGATAAAGTCATGTTGGAAGGCAGCTGT  
GTCCCTGAAGAGGCCTGCACTCAGTGCAATTGGTGAGGATGGAGTCCAGCACCAGTTCTTGAAGCCTGGGTCCCG  
GACCACAGCCCTGTGAGATCTGCACATGCCTCAGCGGGCGGAAGGTCAACTGCACAACGCAGCCCTGCCCCACG  
GCCAAAGTCCCACGTGTGGCCTGTGTGAAGTAGCCCGCTCCGCCAGAATGCAGACAGTGTGCCCCGAGTAT  
GAGTGTGTGTGTGACCCAGTGAGCTGTGACCTGCCCCCAGTGCCCTCACTGTGAACGTGGCCTCCAGCCCACACTG  
ACCAACCTTGGCGAGTGACAGACCAACTTCACTGCGCTGCAGGAAGGAGGAGTGCAAAGAGTGTCCCCACCC  
TCCTGCCCCCGCACCGTTTGGCCACCTTCCGAAGACCCAGTGTGTGATGAGTATGAGTGTGCTGCAACTGT  
GTCAACTCCACAGTGAGCTGTCCCTTGGGTACTTGGCTCAACCGCCACCAATGACTGTGGCTGTACCACAACC  
ACCTGCCTTCCCGACAAGGTGTGTGTCCACCGAAGCACCATCTACCCTGTGGGCCAGTTCTGGGAGGAGGGCTGC  
GATGTGTGCACCTGCACCGACATGGAGGATGCCGTGATGGGCTCCGCGTGGCCAGTGCTCCCAAGCCCTGT

3777/6881  
**FIGURE 3482C**

GAGGACAGCTGTCGGTCGGGCTTCACTTACGTTCTGCATGAAGCGAGTGCTGTGGAAGGTGCCTGCCATCTGCC  
TGTGAGGTGGTGACTGGCTCACCGCGGGGGACTCCCAGTCTTCCTGGAAGAGTGTCGGCTCCCAGTGGGCCTCC  
CCGGAGAACCCCTGCCTCATCAATGAGTGTGTCCGAGTGAAGGAGGAGGTCTTTATACAACAAAGGAACGTCTCC  
TGCCCCCAGCTGGAGGTCCCTGTCTGCCCCTCGGGCTTTTCAGCTGAGCTGTAAGACCTCAGCGTGCTGCCAAGC  
TGTGCTGTGAGCGCATGGAGGCCTGCATGCTCAATGGCACTGTTCATTGGGCCCGGGAAGACTGTGATGATCGAT  
GTGTGCACGACCTGCCGCTGCATGGTGCAGGTGGGGGTCTCTCTGGATTCAAGCTGGAGTGCAGGAAGACCACC  
TGCAACCCCTGCCCCCTGGGTTACAAGGAAGAAAATAACACAGGTGAATGTTGTGGGAGATGTTTGCCTACGGCT  
TGCACCATTCAGCTAAGAGGAGGACAGATCATGACACTGAAGCGTGATGAGACGCTCCAGGATGGCTGTGATACT  
CACTTCTGCAAGGTCAATGAGAGAGGAGAGTACTTCTGGGAGAAGAGGGTCACAGGCTGCCACCCTTTGATGAA  
CACAAGTGTCTGGCTGAGGGAGGTAAAATTATGAAAATTCAGGCACCTGCTGTGACACATGTGAGGAGCCTGAG  
TGCAACGACATCACTGCCAGGCTGCAGTATGTCAAGTGGGAAGCTGTAAGTCTGAAGTAGAGGTGGATATCCAC  
TACTGCCAGGGCAAATGTGCCAGCAAAGCCATGTACTCCATTGACATCAACGATGTGCAGGACCAGTGCTCCTGC  
TGCTCTCCGACACGGACGGAGCCCATGCAGGTGGCCCTGCACTGCACCAATGGCTCTGTTGTGTACCATGAGGTT  
CTCAATGCCATGGAGTGCAAATGCTCCCCAGGAAGTGAGCAAGTGAGGCTGCTGCAGCTGCATGGGTGCCTGC  
TGCTGCCTGCCTTGGCCTGATGGCCAGGCCAGAGTGCTGCCAGTCCTCTGCATGTTCTGCTCTTGTGCCCTTCTG  
AGCCCAATAAAGGCTGAGCTCTTATCTTGC



3778/6881  
FIGURE 3483A

TCAGTGGCGTTTGGCCCTGATTCCCGGGGCTGGCTTTTCAGCGTAGCAATTCTGCCGGCGAAGAAGGTGAGCGCAG  
TGCTGTGTGGCAGCAGAGGTCTTAGGACGAGGAACAGCGGGACGAGGAAGGGCAGACTGGTGAAATCGCAAACCT  
GGGCGTCTGTTCCGGCACCGGACCCCTGTTTGC AAAGGTCCATGGCTAATGAAACACAGAAGGTTGGTGCCATCC  
ATTTTCCTTTTCCCTTACACCCCTATTCCATCCAGGAAGACTTCATGGCAGAGCTGTACCGGGTTTGGAGGCTG  
GCAAGATTGGGATATTTGAGAGTCCAACCTGGCACTGGGAAGTCCCTTAAGTCTTATTTGTGGGGCCCTCTCCTGGC  
TCCGTGACTTTGAACAGAAGAAGCGTGAAGAAGAGGCACGACTCCTTGAAACTGGAAGTGGCCCTTACATGATG  
AGAAAGATGAATCCCTGTGTCTGTCTTCTCCTCGCAAGGGGCTGCAGGCACCCCGAGGCTGTGGAGAACCGG  
CCTGGGTTACTCAGTTTGTGTCAGAAGAAGAAGAGAGGGACCTGGTGGACCGACTGAAGGTGGAGCAGGCCAGGA  
GGAAGCAGCGAGAAGAAGCGCTGCAGCAGCTGCAGCACAGGGTGCAGCTCAAGTATGCAGCCAAGCGCTGAGGC  
AGGAAGAAGAAGAAAACAGAGAATCTCCTCCGCCTCAGCAGGGAGATGCTAGAGACAGGCCCGGAGGCCGAGCGGC  
TGGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCGCCGAATACGAGAGTGATGAGGAGAAAAAGGTGGCGA  
GCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAGATTTTACTGTAGTCTGGACACACT  
CCCAGCTGGCCCACTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAGGATGTTTCGGCTGGTCTCCTCGGCT  
CCCGGCAGAACCTTTGTGTAAATGAAGACGTGAGAAGCCTAGGTTCTGTGCAGCTTATCAACGACCGCTGCGTGG  
ACATGCAGAGAAGCAGGCACGAGAAGAAGAAAGGAGCTGAGGAGGAGAAGCCAAAGAGGAGGAGGCAGGAGAAGC  
AGGCAGCCTGCCCTTCTACAACCACGAGCAGATGGGCTTCTCCGGGATGAGGCCCTGGCAGAGGTGAAGGACA  
TGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGGCTGTCCCTATTACAGGAGCCGCTTGCCATCCCTGCAG  
CCCAGCTGGTGGTGTGCTGCCCTATCAGATGCTGCTGCATGCGGCCACTCGGCAGGCCCGCGCATCCGGCTGCAGG  
ACCAGGTGGTGATCATCGACGAGGCGCACAACTGATCGACACCATCACGGGCATGCACAGCGTGGAGGTACAGCG  
GCTCCCAGCTCTGCCAGGCCATTCCCAGCTGCTGCAGTACATGGAGCGATACGGGAAGCGTTTGAAGGCCAAGA  
ACCTGATGTACCTGAAGCAGATCCTGTATTTGCTGGAGAAATTCGTGGCTGTGCTAGGGGGGAACATTAAGCAAA  
ATCCCAATACACAGAGTCTGTACAGACAGGGACGGAGCTGAAGACCATCAACGACTTTCTCTCCAGAGCCAGA  
TCGACAACATCAACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATGATCAGCAGAAAGCTCTTTGGCTTCA  
CTGAACGGTACGGAGCAGTGTTCATCCCGGGAGCAGCCCAAAGTGGCTGGGTTTCAGCAATTCCTGCAGAGCC  
TGCAGCCCAGGACGACTGAAGCTCTTGCAGCCCTGCAGACGAGAGTCAGGCCAGCGTCCCGCAACCAGCTTCCC  
CACTAATGCACATCGAAGGCTTCTTGGCAGCTCTCACTACGGCCAACCAGGACGGCAGGGTCACTCTGAGCCGCC  
AAGGCAGCCTCAGTGAGAGCACCTGAAGTTTTTGTCTCTGAATCCAGCTGTGCACITTTGCCCAAGTGGTGAAGG  
AATGCCGGGAGTGGTCATTGCGGGGGGACCATGCAGCCGGTGTCTGACTTCCGGCAGCAGCTGCTGGCCCTGTG  
CTGGGGTGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTTCAGTGATCCCTCCAGACAACATCTGCCCTTGT  
CATCTGCAGCGGGATCTCAACCAGCCGCTGGAATTCACCTTCCAGAAAAGAGACCTGCCTCAGATGATATTCCA  
GGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTGGCGTATTCCAGGTGCATCCAGGCCCTGTGGCCAGGA  
GAGAGGCCAGGTGACAGAGGCCCTGCTCCTCTCTGTGGTTGGAGGAAAGATGAGTGAAGGGATCAACTTCTCTGA  
CAACCTAGGCCGGTGTGTGGTGTGATGGTGGGCATGCCCTTCCCCAACATCAGGTCTGCAGAGCTGCAGGAGAAGAT  
GGCCTACTTGGATCAAACCTTCCCAGAGCCCCCGGCCAGGCACCCCCAGGGAAGGCTCTGGTGGAGAACCTGTG  
CATGAAGGCCGTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAGAAAGGATTTTGCCAGCATAGTGCTCCTGGA  
CCAGCGATACGCCCGGCCCTGTCTGGCCAAGCTGCCGGCTGGATCCGAGCCAGTGTGGAGGTCAAAGCTAC  
CTTTGGCCCCGCCATTGTCTGTGTGAGAAGTTTACCGGGAGAAGTCGGCCTCTTCTGTATGGGCAACCACACC  
ACCGCCCGGGCGCGTGCCTTCTTTGTCTGCCCTCTGGAGACAGTGTTTGTCTGGGCGTGGTCTGCAGGGAT  
CCTGTTACAAAGGTGAAACCCAGGAGGAGTGTTGGAGTCCAGAGCGCTGCCGGGACCCAGGCACAGGCGTTAGC  
TCCCGTAGGAGAAAATGCGGGAATCCTGAATGAACAGTGGTCTGGCTGTCTTGGGGCGTTCCAGGGCAGCTC  
CCCTCCTGGAATAGAATCTTTCTTTCCATCTGCATGGCTGAGAGCCAGGCTTCTGCTTGGAGTCCGCAGGAGG  
CTGTGGCAGCAGTGGCATCCACTGTGGCATCTCCGCTCTGCCACCTTAAGAGGCGAGATGGAGCAGGTCCATCT  
GCCTCTGCCCTTTCTAGCCAAGGTTATAGCTGCCCTGGACTGCTCACTCTCTGGTCTCAATTTAAATGATCCCG  
TGGCCACAGGGCTCCTGCCAGGGGCTTGTCACTTCCCTCTCTCCTTCTGAGTCACTCCTCAGTAGAAGGCC  
CTGCTCTCTATCCTGCCACAGCCCTGCCTGGATTGTATCCTTGGCTTCGTGCCAGTTCCTCCAAGTCTATGG  
CACCTCCCTCCCTCTCAACCACTTGAGCAAACCTCAAGACACCTTCTACCCGACACCAGCAATTATGCCAAGGG  
CCATTAGGCTCTCAACATGACTATAGAGACCCGTATCATCATGGAGACCTTTGTTCTGTGGGAAAATAACCTT  
CCCACCTGCAACAGCTGCCCTGTGACTGCGCTGTCTTCTCCCTTGACCCAGAGAAAGGGGCGGTGGTCAG

3779/6881  
**FIGURE 3483B**

CTGGGATCTTCTGCCACCATCAGGGACAAACCGGGGGCAGGAGGAAAGTCACTGATGCCCAGCTGTTTGCATCCT  
GCACAGCTACAGGTCCTTAATTAAAAGTGTACTGTTGGTT

3780/6881  
**FIGURE 3484**

MANETQKVGAIHFPFPFTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALSWLRDFEQKKREEEAR  
LLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAGEPAWVTQFVQKKEERDLVDRLKVEQARRKQREERLQQLQHR  
VOLKYAAKRLRQEEEEETENLLRLSREMLETGPEAERLEQLESCEEELVLAEYESDEEKKVASRVEDEDDDLEEEH  
ITKIYHCSRTHSQLAQFVHEVKKSPFGKDVRLVSLGSRQNLVCNEDVRSLSVQLINDRCVDMQRSRHEKKKGAE  
EEKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARACPYRSRLAIPAAQLVVLPHYQMLLHA  
ATRQAAGIRLQDQVVIIDEAHNLIDTITGMHSVEVSGSQLCQAHSQLQYMERYGKRLKAKNLMYLKQILYLLEK  
FVAVLGGNIKQNPNTQSLSQGTGTELKTINDFLFQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQP  
KLAGFQQFLQSLQPRTEALAAPADESQASVPQPASPLMHIEGFLAALTANQDGRVILSRQGSLSSESTLKFLLL  
NPAVHFAQVVKCRAVVIAGGTMQPVSDFRQQLACAGVEAERVVEFSCGHVIPPDNICPLSSAAGSPTSRWNSP  
SRKETCLR

3781/6881  
**FIGURE 3485A**

TACAATACAGTCTGTTCCTCCAGCTCCTTCTTTCTGCAACATGGGGAAGAACAACTCCTTCATCCAAGTCTG  
GTTCTTCTCCTCTTGGTCTCCTGCCCACAGACGCCTCAGTCTCTGGAAAACCGCAGTATATGGTTCTGGTCCCC  
TCCCTGCTCCACACTGAGACCACTGAGAAGGGCTGTGTCTTCTGAGCTACCTGAATGAGACAGTGACTGTAAGT  
GCTTCTTGGAGTCTGTCTAGGGGAAACAGGAGCCTCTTCACTGACCTGGAGGCGGAGAATGACGTACTCCACTGT  
GTCGCCTTCGTGTCCCAAAGTCTTCATCCAATGAGGAGGTAATGTTCTCTCACTGTCCAAGTGAAAGGACCAACC  
CAAGAATTTAAGAAGCGGACCACAGTGATGGTTAAGAACGAGGACAGTCTGGTCTTTGTCCAGACAGACAAATCA  
ATCTACAAACCAGGGCAGACAGTGAAATTTCTGTGTCTCCATGGATGAAAACCTTACCCCCCTGAATGAGTTG  
ATTCCACTAGTATACATTACAGGATCCCAAAGGAAATCGCATCGCACAATGGCAGAGTTTCCAGTTAGAGGGTGGC  
CTCAAGCAATTTCTTTTCCCTCTCATCAGAGCCCTTCCAGGGCTCTACAAGGTGGTGGTACAGAAGAAATCA  
GGTGAAGGACAGAGCACCTTTACCCGTGGAGGAATTTGTTCTTCCCAAGTTTGAAGTACAAGTAACAGTGCCA  
AAGATAATCACCATCTTGAAGAAGAGATGAATGTATCAGTGTGTGGCCTATACACATATGGGAAGCCTGTCCCT  
GGACATGTGACTGTGAGCATTTCAGAAAGTATAGTGACGCTTCCGACTGCCACGGTGAAGATTCACAGGCTTTC  
TGTGAGAAATTCAGTGGACAGCTAAACAGCCATGGCTGCTTCTATCAGCAAGTAAAAACCAAGGTCTTCCAGCTG  
AAGAGGAAGGAGTATGAAATGAACTTCACACTGAGGCCAGATCCAGAAGAAGGAACAGTGGTGAATGACT  
GGAAGGCAGTCCAGTGAAATCACAGAACCATAACCAAACCTCTCATTTGTGAAAGTGGACTCACACTTTCGACAG  
GGAATTCCTTCTTTGGGCAGGTGCGCCTAGTAGATGGGAAAGGCGTCCCTATACCAAATAAGTCATATTCATC  
AGAGGAAATGAAGCAAACCTATTACTCCAATGCTACCAGGATGAGCATGGCCTTGTACAGTCTCTATCAACACC  
ACCAATGTTATGGGTACCTCTCTTACTGTTAGGGTCAATTACAAGGATCGTAGTCCCTGTTACGGCTACCAAGTGG  
GTGTCAGAAGAACACGAAGAGGCACATCACACTGCTTATCTGTGTTCTCCCAAGCAAGAGCTTTGTCCACCTT  
GAGCCCATGTCTCATGAACCTACCTGTGGCCATACTCAGACAGTCCAGGCACATTATATTCTGAATGGAGGCACC  
CTGCTGGGGCTGAAGAAGCTCTCCTTCTATTATCTGATAATGGCAAAGGGAGGCATTGTCCGAAGTGGGACTCAT  
GGACTGCTTGTGAAGCAGGAAGACATGAAGGGCCATTTTCCATCTCAATCCCTGTGAAGTCAGACATTGCTCCT  
GTCGCTCGGTTGCTCATCTATGCTGTTTTACCTACCGGGGACGTGATTGGGGATTCTGCAAAATATGATGTTGAA  
AATTGCTGCGCAACAAGGTGGATTTGAGCTTCAGCCCATCACAAGTCTCCAGCCTCACACGCCACCTGCGGA  
GTCACAGCGGCTCCTCAGTCCGTCTGCGCCCTCCGTGCTGTGGACCAAGCGTGTCTCATGAAGCCTGATGCT  
GAGCTCTCGGCGTCTCGGTTTACAACCTGCTACCAGAAAAGGACCTCACTGGCTTCCCTGGGCCCTTTGAATGAC  
CAGGACAATGAAGACTGCATCAATCGTCATAATGTCTATATTAATGGAATCACATATACTCCAGTATCAAGTACA  
AATGAAAAGGATATGTACAGCTTCTAGAGGACATGGGCTTAAAGGCATTACCAACTCAAAGATTCGTAAACCC  
AAAATGTGTCCACAGCTTCAACAGTATGAAATGCATGGACCTGAAGGTCTACGTGTAGGTTTTATGAGTCAGAT  
GTAATGGGAAGAGGCCATGCACGCCTGGTGCATGTTGAAGAGCCTCACACGGAGACCGTACGAAAGTACTTCCCT  
GAGACATGGATCTGGGATTTGGTGGTGGTAAACTCAGCAGGTGTGGCTGAGGTAGGAGTAACAGTCCCTGACACC  
ATCACCGAGTGAAGGCAGGGCCCTTCTGCCTGTCTGAAGATGCTGGACTTGGTATCTCTTCCACTGCCTCTCTC  
CGAGCCTTCCAGCCCTTCTTGTGGAGCTCACAATGCCTTACTCTGTGATTCTGTGGAGAGGCCTTACACTCAAG  
GCCACGGTCTAAACTACCTTCCCAAATGCATCCGGGTCACTGTGCAGCTGGAAGCCTCTCCGCGCTTCCCTAGCT  
GTCCAGTGGAGAAGGAACAAGCGCCTCACTGCATCTGTGCAACGGGCGGCAACTGTGTCTTGGGCGAGTAACC  
CCAAAGTCATTAGGAAATGGAATTTCACTGTGAGCGCAGAGGCACTAGAGTCTCAAGAGCTGTGTGGGACTGAG  
GTGCCTTCAGTTCTGAACACGGAAGGAAGACACAGTCATCAAGCCTCTGTTGGTTGAACCTGAAGGACTAGAG  
AAGGAAACAACATTCAACTCCCTACTTTGTCCATCAGGTGGTGAAGTTTCTGAAGAATTATCCCTGAAACTGCCA  
CCAAATGTGGTAGAAGAATCTGCCCCGAGCTTCTGTCTCAGTTTTGGGAGACATATTAGGCTCTGCCATGCAAAAC  
ACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAAATATGGTCTCTTTGCTCCTAACATCTATGTA  
CTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGATCAAGTCCAAGGCCATTGGCTATCTCAACACTGGT  
TACCAGAGACAGTTGAACTACAAACACTATGATGGCTCTACAGCACCTTTGGGGAGCGATATGGCAGGAACCAG  
GGCAACACCTGGCTCACAGCCTTGTCTGAAGACTTTTGCCCAAGCTCGAGCCTACATCTTCATCGATGAAGCA  
CACATTACCCAGCCCTCATATGGCTCTCCAGAGGCAGAAGGACAATGGCTGTTTCAGGAGCTCTGGGTCACTG  
CTCAACAATGCCATAAAGGGAGGAGTAGAAGATGAAGTGACCTTCCGCTATATCACCATCGCCCTTCTGGAG  
ATTCTCTCACAGTCACTCACCTGTTGTCCGCAATGCCCTGTTTGGCTGGAGTCAGCCTGGAAGACAGCACA  
GAAGGGGACCATGGCAGCCATGTATATACCAAGCACTGCTGGCCTATGCTTTTGGCCTGGCAGGTAACCAGGAC  
AAGAGGAAGGAAGTACTCAAGTCACTTAATGAGGAAGCTGTGAAGAAAGACAACCTCTGTCCATTGGGAGCGCCCT

3782/6881

**FIGURE 3485B**

CAGAAACCCAAGGCACCAAGTGGGGCATTTTTACGAACCCAGGCTCCCTCTGCTGAGGTGGAGATGACATCCTAT  
GTGCTCCTCGCTTATCTCACGGCCCAGCCAGCCCCAACCTCGGAGGACCTGACCTCTGCAACCAACATCGTGAAG  
TGGATCACGAAGCAGCAGAATGCCCAGGGCGGTTTTCTCCTCCACCCAGGACACAGTGGTGGCTCTCCATGCTCTG  
TCCAAATATGGAGCAGCCACATTTACCAGGACTGGGAAGGCTGCACAGGTGACTATCCAGTCTTCAGGGACATTT  
TCCAGCAAATTCAGTGGACAACAACAACCGCCTGTTACTGCAGCAGGTCTCATTGCCAGAGCTGCCTGGGGAA  
TACAGCATGAAAGTGACAGGAGAAGGATGTGTCTACCTCCAGACATCCTTGAAATACAATATTCTCCAGAAAAG  
GAAGAGTTCCCTTTTGCTTTAGGAGTGCAGACTCTGCCTCAAACCTTGTGATGAACCCAAAGCCACACCAGCTTC  
CAAATCTCCCTAAGTGTGAGTTACACAGGGAGCCGCTCTGCCTCCAACATGGCGATCGTTGATGTGAAGATGGTC  
TCTGGCTTCATTCCCTGAAGCCAACAGTGAAAATGCTTGAAAGATCTAACCATGTGAGCCGGACAGAAGTCAGC  
AGCAACCATGTCTTGATTTACCTTGATAAGGTGTCAAATCAGACACTGAGCTTGTTCTTCACGGTTCTGCAAGAT  
GTCCAGTAAGAGATCTGAAACCAGCCATAGTGAAAGTCTATGATTACTACGAGACGGATGAGTTTGCAATTGCT  
GAGTACAATGCTCCTTGACAGCAAAGATCTTGGAAATGCTTGAAGACCACAAGGCTGAAAAGTGCTTTGCTGGAGT  
CCTGTTCTCAGAGCTCCACAGAAGACACGTGTTTTTGTATCTTTAAAGACTTGATGAATAAACACTTTTTCTGGT  
C

3783/6881  
**FIGURE 3486**

CATCAGCCCAGCCTGCAAGGAGGCGCCACCGGACCTGCACACTCAGGAGCAGACTCAGCTAGATTGGAAGAGAGG  
ATGGGAAGACAATGGATGACCTACCTGTGGAGAGAACTACCCATTCCAGAACCTCCTCTCTGCTGAAAGCTGAA  
CACTCAATGGGAAGACCTGTTTGCAGAGAGGAGCCAGCCACTCCAGGGTCTCCGTTCTGCTAGAAGCTGAACACT  
CGTTGGGACACCCCTTGCTGTGGAAAGGACATCCTTACTGTGGAAATGAGCTACTAACTGCAGGAGCTGAGGAGCT  
GCACAGCAAGGTTAAAGAGCTGTAAACACAAACAGGGCTGCAACATGCCCTTGCTCCCCACAGGGAGAGAAGAG  
CTCTGGCCCTCGGAGAAGCCAGACCTGGGAGCTCCTTGAGCCCGGGCTGTGACTCCCTCTTTGGGGCCCTGGTT  
GGCGTCACTGCATTGCGCAGTGCCACTGTTGGAAGCTGCTTGTGATGCGCCTGGTCCAGGGGGAAGCTGTTTGT  
GTGTGCCTGGTCCAGCCACCTCATGGAGAGCCTGTGCTGGCACCTGGAGCTGCCAACCTGGGCAGCAGCTTGTG  
TGTGTGACTGCACAGTGGCCACGCTTGCTCACACACCCCTAGCACACCCCTCTGCTCCACCCGCTCTCAATCTCCC  
TTGGATCCGGGATCCAGGTTGGTAGCAAGTGCAGTGGGCAGAAAGCAGCCAGTGGGCCAGAGCAAACTCAGG  
CAAAGGTGCCACTAGACTGGCCAGGAAAGCGACACCCCTAAAGATCCCATATGCTGATATGTTAATCTATTCTA  
TAAGCACCACACAGAAGTGATAGCTTTTATTTCTTATTTTGTCTAGCCTGGAGACAGAGCTAAGGATTCCCTGAA  
CTGCAAAGTCTTTCCAGTTCTTAGTTTATACAACTCATACTACCTTCTGCCTAACTAAGCATTGTCTTTTGT  
TGCCAAATGAAGAGTAGGACTCCTACGATTGTCTCAGACTCTCTTGGCTCAATCCTCCTGCTTTAACCTTCTCT  
ACTTCAAAACTCCTGAAGTTTGTCTCCCCTTCTATAGAATGGAAATATATGTCGCAATACTTACTGCAAGAA  
AATTATATATTTTAAAAATAGACTAAAGAGATGTTGTGAGACATCAGACATCAATCAGATGTTGTGAGAACTGAT  
TTCTGCATCAGAAATATCTCCTTGACTTTACAGCTATCCTTTAATCCTGGCTCAAAGTCCAGAAGAAAGATGATC  
CAATATAATACTCCTATTTGGACTTTGAGTCATACACATTCTTCTCTGAGAAAACGTGCTTCTGCATGAATCC  
TCCCTTCATTATTTTCAGCTCATCTATTATTGAATCTGAAACCCAGGTAACTGACTGATCACTCTCATCAGTG  
GCAGATTTTGGTGTAAACATAGGACACATCACTCCCAATTCAGGTCAAGTCCCAATTATCTTGCCTCTCAATATGA  
CATGTTCAATGTTGTATTTCACTTCTACTTCAATTTTAAATGTAAAAAGTCTTTTCTGGTGAAGTCAGTCTTTTATT  
TCTCATAAAAATTACCCCTTTGGGTTTTTCATAGGGTATTCCCATAACCAAAACACACTTTACACTTTCCTAGTAC  
ATAACCCAATACTTTCTTCTTTCCCCACAGTCTTACATGAAGCCTACTCAGACCGACATCACTGTATCATTTTT  
TTGTATTCTGAAGTCTTCAGCACTTGATTCTTTAAGTTTAACTCTTGGTATTCTATTGGGAATCATATGGAAT  
GTACAATGATATTTATTGAATGAACAGGAAACAGGGAAGACATTGACCAGAAAAAGTGTATTATCATCAAGTCT  
TTAAAGATACAAAAACAGTGTCTTCTGTGGAGCTCTGAGAACAGGACTCCAGCAAAGCACCTTTTCAGCCTTGTG  
GTCTTCAAGCATTTCGAAGATCTGTGACATTGGAAAGAAAAAAATTAAGACAGATTGGGTCTCCATGAGCAGA  
GAGTATTCTTTCCCTTAGTTCTGGGTAGCATAGTGCCCAAGGAAACCTAATCAGTACAGTGGGAAACCAATCTA  
TTCCAAATCATTACCCATAAGCAATCCTATGGACTCTCTGAGGTTTGACAGAGTCAGCGGCCCTCTCCAATAAAT  
GTGTTTTTCTAT

3784/6881  
**FIGURE 3487**

MRLVQGEAVCCVPGPATSWRACAGTWSCPTWAAACVCDCTVATLAHTPLAHPSAPPVSI  
SLGSGIQVGSKEWAE  
AAQWAQSKTQAKVPLDWPGKRHPKDPIMLIC

3785/6881  
**FIGURE 3488**

ACTCGAACCCTACCCGGGAGCGGTCAGGCGCGTGACCCCGCGTGACCGGGGTGCGCGAGCCGAGAGGCCCTGGAA  
GCGGGACTCTGGGACCCCATTTGAAAGAAAGGCAACCAGAAAAGGCGAAACGACAACCTCGATAGTGATTGGAGCT  
GATGGAACGAGGGCGGAGCTAAAGTCCCAGAACTAGTGGCCAATCAGAGTTTAAGATTATCAGGGAGCCCGGGAAG  
GGGAAAGGGGCGAAATGGTTCTATGGTCACATGCCGCGGGGTCTGGTGGGAGGAGCGGTTGCCAGCGGCCCTCTT  
GGCGCTTCTGTTCGGTTCCCAGAGTGGGGCACAGCGAGGCGCTAGGGGGAACGCTGGCCTCTGAAACTAGCT  
CTGGGACCGGGGTCTGCGGCCGGCCCTAGCTGGCCCCGTCTCCCATCCCCAGAAGGGTATTCACTGGGGATTCT  
GAGCTTTGGCTACTCCAGTTTCCCACGACACGTGAGTGTGAGGGGCGTGGAGGAGGAGCGGGCTGGGTTGCGCT  
CACACTTAAGCGTCTGTGACAGGAGCCGGAATCGCATTCTCCCTTGACCATGGTTCTAGCCAAAGATCTGGCTGA  
GGAGCCCTAAGGGTAGAATGGAGGCGGAGGCATGAGAGCGGAGAGTACGGAGTTCCGAAAGGTGTGAGGGAGAA  
AGGACTTCCAAGACCAGAGAGGGGATTTACGATATTTAGAAAGCAGGGAAAGGAAATACCCCAAGTATGGAGTC  
CGTTGGAGGTGTGGTGGATTTATTTGTAGGAGGAATTTGGCCTGCATCACGGTGGGAGGTCAAGTGGCATCAT  
TTGGAGAGGGTATGGCTACAAGCGCTTGGAAAGTCGGGACACTAGACAGAGCGAGAATTTCTGGCACCCCTGGGAG  
AGCTTTGAGGGGGATGCGACTGTGGTGTGGATAAGAAATGGCTGATGGACGGATTATCTTGTGTTTCTCGTTGTGG  
GGAGCTTCGCTCTTGGGACATAGCCGCTACTTGTCTGAGGCCTCTTCTCTTTGAGTTCTTTCAGCATTAGGCC  
TTTTAGCCAATTGAGGCTGCTTTTCTAAACATGTAGGCTGCTGGAGAAAAGGGATAAGGACTGCTACATCAGAA  
AGGAGCCAGCGGGAAGACAGTAGAAATTCACCTGGTAAATGGCCATGGCTGTCTTAACAGATGGGGAAGTGAGTG  
CTACAGAGGCCAGTGGTGTAAGCTGCTTCCCAGTTGCTGGCTTAGTCATTGGCCACCCTAATAAAGGATAATTT  
TTAGCATTGCCAAATAAAATAGATCTGTGCTTAGAGAATAAGAAAAGTAAAGATTTTTCAAGATCATAAAATCC  
TGCTCCTTATTTCCAAAGTATATAGACAACTCTTGTACCTTGAGAATCTAATTGTAGCATATTTAAAGGGGGCT  
ACTGGGCCCTTCCATTTCATTCTCTTCTGATTGTTGCAACCCCTATGTTTATAAGTTTTCCAGCAGTTATCTTTA  
TGCCACGAATCGTCTAAATTGCCCCAGTAACTTCACACACATTTAATATCTGTGTAATGTACAGCAAGTAATTTA  
ACAAGTAATTCTGTAAAGCATCAGTTTTCTCATCTGTGAAGTATGAAAAATTATACCTATTTTCTGGGTTGTGAA  
GATGAATGAACATAATCTAGGGAAAACATTTAGCGCATATGCCACTGAATTAAAGAGAAGCAGCTTAAATTTAAA  
GACAAGCCTTAAGCAGGAAAGAAGAATACAGTATAAATTTATTATCCTAACTTTTTGAATAATAAGCAAATGAAA  
GATAGTTCAACTCAGCTAATGGCTGAGGTGTTAACCTTTCATCCCTTCCTAATTTGTGAGATTCTTGTCTTA  
ATTTAGGAAAAGAAATCAACTGTCTAGTTTTTAATTAGGTCCTGAGAGACTGGAAAGGAAAATGGCAGGCTAAGTC  
AGTCTAGAAGAAGGAGTCTCTATTTCTTTTAGTGAGTCAGCTGGTCAAGTTGTGTGTTGAGCAGTGGGTTAAC  
TTAGGGAAGGTGGGAGTTGGAGGTCTGAGTTCTTTATTTACCTCCTATTCACTCACTGTGTGAGGAATCACTT  
CCCCTTCACTTCTTAGT



3786/6881  
**FIGURE 3489**

TTCCGGTTCACAGAGTGGGGCACAGCGAGGCGCTAGGGGGAACGCTGGCCTCTGAACTAGCTCTGGGACCGGGG  
TCTGCGGCCGCCCCCTAGCTGGCCCCGTCTCCCATCCCCAGAAGGGTATTCACTGGGGATTCTGAGCTTTGGCTA  
CTCCAGTTTCCACGACACGATGTTCCCTTTTACAGCTGCTGGAGGACTGGACTGCTACTACTCTCTGGCTG  
TGGCAGTGAGAGAATCCTGGCAGACAGAAGAAAAAAGCTTGGCAGCTTGGTAGGAGAAAAGGGTAAAGAGTCAGAGA  
AAGAGTTGGCTCTAGTGAAGAGGCTGAAACCACTGTTTAATAAAAGCTTTGAGAGCACTGTGGGCCAGGGTTCAG  
ACACATACATCTACATCTTCAGGGTGTGCCGGGAAGCTGGCAACCACACTTCTGGGGCAGGCCTGGTGCAATCA  
ACAAAAGTAATGGGAAGGAGACAGTGGTAGGGAGACTCAACGAGACTCACATCTTCAACGGAAGTAATTGGATCA  
TGCTGATCTATAAAGGGGGTGATGAATATGACAACCACTGTGGCAAGGAGCAGCGTCGTGCACTGGTGATGATCT  
CCTGCAATCGACACACCCTAGCGGACAATTTTAAACCTGTGTCTGAGGAGCGTGGCAAAGTCCAAGATTGTTTCT  
ACCTCTTTGAGATGGATAGCAGCCTGGCCTGTTACCCAGAGATCTCCACCTCAGTGTGGGTTCATCTTACTTG  
TCACGTTTGCACTACTGGTTGTGTTTATGTTGTTGGGGGGTTCCTATACCAGCGACTGGTAGTGAGCCAAAG  
GAATGGAGCAGTTTCCCCACTTAGCCTTCTGGCAGGATCTTGGCAACCTGGTAGCAGATGGCTGTGACTTTGTCT  
GCCGTTCTAAACCTCGAAATGTGCCTGCAGCATATCGTGGTGTGGGGGATGACCAGCTGGGGGAGGAGTCAGAA  
AAAGGGATGACCAATTTATTACCAATGTAGATTGCACTTTATATGTCCAGCCTCTTCTCAGTCCCCCAAACAAA  
GCTACACAGCCAGATTTCTCAAGCAGTCTCAACTCCAGTCCCTCATCTCACCTTACTATTGCTCTTGCTTTCCA  
GTTTGCTTTTGATTTGCATCTTCTCACTAGTAAACTGCCTTCCCTTTGTTTCTTATTTTCTGTTTTTCTCTAG  
AGAGGTACAGTTGTAAGTCAGAGTTAATATAATAGGGCCTGTGAAAACAGAGGCTTTTGCAATTGTCTCTTGACAT  
CAGAAGTTACAATAGGCATATGGGCAAAATGGTGTAGCAGGCTCACTGGCCGTTTGTTTTTTAAACACATTTTCA  
CAAGTTTTTGAGACACTGGATTTCTTTAATTAATAAAAAAATGCCAAGAAACATTATTTATACAGGGTTGATTGC  
TTTCATGTTGTTATTCTGTACCTATAGTAGCCTCCATGAGAATCTGGTATTTCTTGCTGCTTGGAACACTTTG  
CAGTGATTACTTGGTTGCAGTCCAAGTACTCTCGTTTAGTCTGAGCCTGGAGATGTTCTAGACTTGCTTCTCCCA  
CCTCTGAGATTAGGACAGGAAAAATGTGAAATTTCCCAATTACAGGATTATACGGTACCATCACATCATTGTGG  
AAATTGGGGTGACTGTATAGCTGGGATTGGGCTAAGGACTGTGGTCTTATCTGTCCACATACAGCCAAATGCCT  
ATCCAGAAATCCAGTTTCGTTGGAAAGGAAAATGGTACTCCTGTGCCACAGGGGTTCCAGAAAAGGGAAGTCACT  
TTACCTTGCGGTGGTGGGATCCGATGTCTTTCATCCATTTGTAGTAAAAGCTGGTAAAGCTTTTCTTACTCCTG  
GTTCCCTACCAGTATTTCTAAACATGTGCGACTTTCTCCACAGGCATGTGGTTTTGACCTTTTTTCAATCTTCT  
AGAAAGGGAACGGAAGCAGAAGTGGGACATCGAGGGCTCTGCTGTCTCTGCGCTGGGTGTGGAATGCTGCTGCA  
CCTGTCCCTTCTGCTGGCTCAGGGAAGTGTCTTCTTGCCACATTTCTGTGGGGAAGGTTTTTAATCCTCTGAT  
GCTTCCATCTTCTGTTTAGGCCATGTGCCAGAAACCTGGACTGATCTTTCTTTAATAGTGAACCCCTGGGCCA  
CTGAAGAGTAACATGGCTCCACTGGACACAAAAGAGGGATGGAATCAACAGGCAGGGGGCCTTTTATAAGCCTTA  
GGAAAGAAAATGAACTATTTTCATCTTTGGACTTTTCAATACTATTGGAGTGATTTTTTCTTTCTAAACAGGG  
AAAATAATGTTACAAAAGCATCTTTTTGTTATTTGTTGTCATCCCTCCCCACACCCTGGTGTTTTAAATGAA  
GAAAAAAACCATCACCTTTTGTACAAAACCTTTAATGATTAAAAACAAACA

3787/6881  
**FIGURE 3490**

MFPFYSCWRTGLLLLLLAVAVRESWQTEEKTCDLVGEKGKESEKELALVKRLKPLFNKSFESTVGQGSPTYIYIF  
RVCREAGNHTSGAGLVQINKSNGKETVVGRNLNETHIFNGSNWIMLIYKGGDEYDNHCGKEQRRAVVMISCNRHTL  
ADNFNPVSEERGKVQDCFYLFEMDSSLACSPESHLSVGSILLVTFASLVAVYVVGFLYQRLVVGAKGMEQFPH  
LAFWQDLGNLVADGCDFVCRSKPRNVPAAYRGVGGDQLGEESEERDDHLLPM

3788/6881  
**FIGURE 3491**

CTGAGCTGTCCCTGCAGGACTCCAGTGGAAGTGAAGAAGTGGGCACCGGGGAAAAGCTAGGATGTCCCACTC  
CTACACCATGCAGGGAAGTCCGGGCACAGGCCGGCTGGGCCGGGATCAGATGGGAAGCAGAAGCTCATCATGACCA  
GAACTGTTTCCCTACGGAGAGCACTTGGAGATGGCAATGCTGAACCTCACACTGTAGGACTCACACAGCACTCT  
AACGGGATTGTAAGAATCAAGTCACTCTCATGGGAAGAATTTTATATGGGAAAGCGGCTAAACTTTTCATTGGA  
CTGGAATGTTTGGAGATTGTTAAATTCCAAATCAGGAACCAAACTGCCCTCTAATAAGATATCAGCTGTCTAA  
GCGTGTGGGTGCCGCTTTCTGCCAGTAGTTCTGGTTCTTAAGAAAAGCACCATAAATCAGACATGAAAATTCTG  
GCTCCAAAAATAGCATTTTCTTTGTGCAATAAAAACGTGTGTATCAAGTATGACGTTCCCCAACGTGGACACA  
CTTGGTTCCCTCAGAAAGCCAAGCCCCTGCAGCTGCCACATCCAGGGCTTATGGTGCAGCAGGTGCTTTTTTCA  
AGACAGGAATCAAAGTGTTAGGAACACGGCAGACAGGTGACACCTGGATACCAAATGCAGGATGAGGAGTACTGC  
AGAGGTCACAGGGAAGTCACAGAACAGTAATACGCTAGCAGGGGCATGGGGCGTGAAGAACAGAAGAAGACAGTT  
TGAGAAAAGCATCTGCAAAATGCTAAAGAGCAGAGCTTACCTCATTGCCTGTCCCCATCTCATCCAGGTCACCA  
CCTGGCTGACCCAGGTCCCCGACCCAACAACAACCCCTCCCAAGTCCCTAACTCCCTCACTTGGACTTGAGACC  
CTTCACAACCCAGCAGCGCTCCGCTCCAACTGACATCATGCTTTCTGGAACTTCCCGTATGTCCCACTTTC  
CCCACTTGGTGGCTGGAGCACCTTCCGGCTCTACATGCTGTACGTTCCCTGTGAGCACCTCCTCTCGGCC  
TCTGGCCAACACAGTCCCAACCATCTGTGGTAACAAACGGGTGTGTGTGTTCTTTTCAGCCTTGCTAAACTGTC  
TGAATCAAGGATCACAAGTACAGCCTGCAGGCCAAAGCCAGCCCACAGCCTGTGTTGTAAATAAGCTTTATT  
GGAACAAAGCCACACCCCTTAATCTACAGATGATCTGTGGCTACTTTCACACCACAACAGAGTACCATGGTTCTG  
ACAGAGACTGGGGGACCCTGTCTAAATGACTTCTGACCTGGACCTTTACTGAAAATCCTCCCAATCATTCTGTTG  
ACAAGAATGGTGTATTACTTTTTGCAATAAGAAACAAGTAACCTTTGCAGAAATCCACCCATCTTCAAGGCTGA  
TCCCAGAAGTTCCCTCTGCCCACGCACCTACCTGATCCTGATCACTTCCTAAACTGCAGCCCGGGCCACCCGGCT  
CCAGCATCATTTGTGGAGTCTCAGCTCCATAAATCCAGAGGGCAGGTGGGGGTGTGTCCTAATTTCCCGAGCCT  
ACTGTACCGAAACAGGACAGCAGAGTAGGAAGCCTCTGTGACTTCTGCTCCCTCCCTAGCTTTTCCACCAGACCC  
TGCATGGTCCCAACCTGGCTGTGTGAAGCAGGGATCAGGGAGCGTGGCTCGATGTCAGTCTCCAGAACCCTGTCC  
ACCTGGCGTGGTGGCAGACATGGCTACCTGCAGCTGAGCTGCCAGTTCCCTCTGAGTCCTCAAAGACCAGGCCAT  
TTTCTTTATGTTTCACCAGCTCATGTAAACTGCAGAGAGAACCAAGGGAGCCTGAGAGCTGCCTGGGGAAGACAC  
CAGACCCCTGGGGTGCCAGCTGGGCTCCCAACCCACCCACGCTCAAGCCAGGCTGGGGGTTGGAACAGGGGGTG  
TGGTTTCTGGGAGCTGGTTCTTAGATTGTCATCTGAAGGTATAAAGGCCCTGGGGGGGTGCACATCAAAATGA  
CCAAATCGATTTGAGGAGAGAGCCTTAAGGAAGGTTTGTACCTTCTGTGCTGGATGCTCTTCAAGGACTGAAGAA  
TTATTTTTCATGTTTTTCTTAATTCATGGCCATGGAACAAGTAAAGGCAACCCCTGGGGACTGGTTTCAGCAC  
ATAAAGATGACTTTTCTAGGACACC

3789/6881  
**FIGURE 3492**

MVPPWLCEAGIRERGSMSVSRTLSTLAWWQTLPAAEPLVPLSPQRP GHFLYVSPA HVNCRENQGSLRAAWGRHQ  
TPGVPSWAPTHPTLKPGWGLEQGVWFLGAGS

3790/6881  
**FIGURE 3493A**

GTGGGGTGGGGTGGGGCTGGGGGCTTGTGCCCCCTTCAGGCTCCACCCTTTGCGGAGATTATAAATAGTCATGAT  
CCCAGCGAGACCCAGAGATGCTGTAATGGTAAGACTTTGGATCCTTCCTGAGGACGTGGAGAAAACCTTGCTGCTG  
AGAAGGACATTTTGAAGGTTTTTGGTGGCTGAAAAAGCTGTTTCTGGAATCACCCCTAGATCTTTCTTGAAGACTT  
GAATTAGATTACAGCGATGGGGACACAGAAGGTCACCCAGCTCTGATATTTGCCATCACAGTTGCTACAATCGG  
CTCTTTCCAATTTGGCTACAACACTGGGGTCAATGCTCCTGAGAAGATCATAAAGGAATTTATCAATAAAAC  
TTTGACGGACAAGGGAAATGCCCCACCCTCTGAGGTGCTGCTCACGTCCTCTGGTCCTTGCTGTGGCCATATT  
TTCCGTCGGGGGTATGATCGGCTCCTTTTCCGTCGGACTCTTCGTCACCGCTTTGGCAGGCGCAATTCAATGCT  
GATTGTCAACCTGTTGGCTGTCACTGGTGGCTGCTTTATGGGACTGTGTAAAGTAGCTAAGTCGGTTGAAATGCT  
GATCCTGGGTCGCTTGGTTATTGGCTCCTCTGCGGACTCTGCACAGGTTTTGTGCCCATGTACATTGGAGAGAT  
CTCGCTACTGCCCTGCGGGGTGCCTTTGGCACTCTCAACCAGCTGGGCATCGTTGTTGGAATTTCTGGTGGCCCA  
GATCTTTGGTCTGGAATTCATCCTTGGGTCTGAAGAGCTATGGCCGCTGCTACTGGGTTTTACCATCCTTCTCTGC  
TATCCTACAAAGTGCAGCCCTTCCATTTTGGCCTGAAAGTCCCAGATTTTGTCTATTAAACAGAAAAGAAGAGGA  
GAATGCTAAGCAGATCCTCCAGCGTTGTGGGGCACCAGGATGTATCCCAAGACATCCAGGAGATGAAAGATGA  
GAGTGAAGGATGTCACAAGAAAAGCAAGTCACCGTGCTAGAGCTCTTAGAGTGTCCAGTACCGACAGCCCAT  
CATCATTTCCATTGTGCTCCAGCTCTCTCAGCAGCTCTCTGGGATCAATGCTGTGTTCTATTACTCAACAGGAAT  
CTTCAAGGATGCAGGTGTTCAAGAGCCCATCTATGCCACCATCGGCGCGGGTGTGGTTAATACTATCTTCACGTG  
AGTTTCTCTATTTCTGGTGGAAAGGGCAGGAAGAAGGACTCTGCATATGATAGGCCTTGGAGGGATGGCTTTTGT  
TTCCACGCTCATGACTGTTTCTTTGTTATTAAAGGATAACTATAATGGGATGAGCTTTGTCTGTATTGGGGCTAT  
CTTGGTCTTTGTAGCCTTCTTTGAAATTGGACCAGGCCCCATTCCCTGGTTTATTGTGGCCGAACCTCTTCAGCCA  
GGGCCCCCGCCAGCTGCGATGGCAGTGGCCGGCTGCTCCAACCTGGACCTCCAACCTTCTAGTCGGATTGCTCTT  
CCCCCTCGCTGCTCACTATTTAGGAGCCTACGTTTTTATTATCTTCACCGGCTTCTCTATTACCTTCTTGGCTTT  
TACCTTCTTCAAAGTCCCTGAGACCCGTGGCAGGACTTTTGAGGATATCACACGGGCTTTGAAGGGCAGGCACA  
CGGTGCAGATAGATCTGGAAAGGACGGCGTCATGGAGATGAACAGCATCGAGCCTGCTAAGGAGACCACCACCAA  
TGCTAAGTCGTGCCTCCTTCCACCTCCCTCCCGCATGGGAAAGCCACCTCTCCCTCAACAAGGGAGAGACCTC  
ATCAGGATGAACCCAGGACGCTTCTGAATGCTGCTACTTAATTCCTTTCTCATCCCACGCACTCCATGAGCACCC  
CAAGGCTGCGGTTTTGTTGGATCTTCAATGGCTTTTTAAATTTTATTTCTGGACATCCTCTTCTGCTTAGGAGAG  
ACCGAGTGAACCTACCTTCATTTTCAAGAGGGATTGGCCGCTTGGCACATGACAACCTTTGCCAGCTTTTCTCCCT  
TGGGTTCTGATATTGCCGCACTAGGGGATATAGGAGAGGAAAAGTAAGGTGCAGTTCCCCCAACCTCAGACTTAC  
CAGGAAGCAGATACATATGAGTGTGGAAGCCGGAGGGTGTATGTAAGAGCACCTTCTCTCACTTCCATACAGCT  
CTACGTGGCAAATTAACCTTGAGTTTTATTTATTTTATCCTCTGGTTTAATTACATAATTTTTTTTTTTAACTTT  
AAGTTTCAGGATACATGTGCCGAATGTGCAAGTTTGTACATAGGTATATATATGCCATGATGGAAATATTTATT  
TTTTTAAGCGTAATTTTGCCAAATAATAAAACAGAAGGAAATTGAGATTAGAGGGAGGTGTTAAAGAGAGGTT  
ATAGAGTAGAAGATTTGATGCTGGAGAGGTTAAGGTGCAATAAGAATTTAGGGAGAAATGTTGTTCAATTATTGGA  
GGGTAAATGATGTGGTGCTGAGGTCTGTACGTTACCTCTTAACAATTTCTGTCTTCAGATGGAAACTCTTTAA  
CTTCTCGTAAAGTCATATACCTATATAATAAAGCTACTGATTTTCTTTGGAGCTTTTTTCTTTAAGATAATAGT  
TTACATGTAGTAGTACTTGAAATCTAGGATTATTAACATAATATGGGCATTGTAGTTAATGATGGTTGATGGGTTT  
TAATTTTGGATGGAGTCCAGGGAAGAGAAAGTGATTTCTAGAAAGCCTGTTCCTCTCACTGGATGAAATAACTCC  
TTCTTGTAGTAGTCTCATTACTTTTGAAGTAATCCCGCCACCTATCTCGTGGGAGAGCCATCCAAATAAGAAACC  
TAAATAATTTGGTTCTTGGTAGAGATTCAATTATTTTCCACTTTGTTCTTTAGGAGATTTTAGGTGTTGATTTTC  
TGTTGTATTTTAACTCATACCTTTAAAGGAATTTCCCAAAGAATGTTTATAGCAAACCTTGGAAATTTGTAACCTCA  
GCTCTGGGAGAGGATTTTTTCTGAGCGATTATTATCTAAAGTGTGTTGTTGCTTTAGGCTCACGGCACGCTTGC  
GTATGTCTGTTACCATGTCACTGTGGTCTATGCCGAATGCCCTCAGGGGACTTGAATCTTTCCAATAAACCAGG  
TTTAGACAGTATGAGTCAATGTGCAGTGTAGCCACACTTGAGAGGATGAATGTATGTGCACTGTCACTTTGCTC  
TGGGTGGAAGTACGTTATTGTTGACTTATTTTCTCTGTGTTTGTCTTCTACAGCCCCCTTTTTCATATGTTGCTCAG  
TCTCCCTTTCCCTTCTTGGTGCTTACACATCTCAGACCCCTTTAGCCAAACCTTGTCAAGTACAGTATTTTGGTT  
CTTAGTTCTCACTGTTCCCTCTGCTCCTGGAGCCTTTGAATAAAAATGCACGTAGCTGAGGCGGATGCGGTGGC  
TCACGCCTGTAATCCCAGCACTTTGGGAGGCCTAGGCGGGCGGTGAGGGGTCGAGACCAGTCTGGCCAACATCG  
TGAAACCTGTCTCTACTAAAAATGCAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTAATCCCAGCTACTTGG

3791/6881  
**FIGURE 3493B**

GAAGCTGAGGCGGGAGAATCATGTGAACCCGGGACGCAGGGGTTGCAGTGAGCGGAGATCGCATCATTGCACTCT  
AGCCTGGGCCACAGGGCGAGACTCCGTCTCAAAAAAAAAAAAAATGCACATAGCTATCAAGTGTGCTTTAGCTTGA  
AAAGGTGACCTTGCAACTTCATGTCAACTTCTGGCTCCTCAAACAGTAGGTTGGCAGTAAGGCAGGGTCCCATT  
CTCACTGAGAAGATTGTGAATATTTCCATATGGATTTTCTATTGTTACTCTGGTTCTTTGTTTTAAAAATAAAAT  
TCTGAATGTACACG

3792/6881

**FIGURE 3494**

GGCCAAGGCAAGATGGGTCAAAGTCAGAGTGGTGGTCATGGTCCTGGAGGTGGCAAGAAGGATGACAAGCTCTAA  
CAACTCAAGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTACAGTGGGGAAAAAGAAGAAGAAAAACAAAG  
GGACCAGATGCTGCCAGCAAAGTGGTGGTACACCTCACACTCAGTGCCAGTTAAAAATTACTGAAGTTAGAG  
AGAATTAAAGACTATCTTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAAG  
CAAGAAGGGGAAAAGATCAAAGTGGATGATCTGAGGGGGACCCCAATGTCAGTAGGAATCTTGGAAGAGATCATT  
GATGACAATCATGCCATCGTGTCTACATCTGTGGGCTCAGAACACTACATCAGCATTCTTTTCATTTGCAGACAAG  
GATCTTCTGGAACCTGGCTGCTCGGTGAGGCTCAACCACAAGGTGCATACCATGATAGGGGTGCTGATGGATGAC  
ATGGATCCCTGGTCACAGTGATGAAGGTGGAAAAGGCCCCCAAGAGACCTATGCAGATACTGGGGGGTTGGAC  
AACCAAATTCGGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCATCCTGAATATTATGAAGAGATGGGTATA  
AAGCCTCCAAGGGGGTCATTCTGTGGTCCACCTGGCACAGGTAAAACCTTGTTAGCCAAAGCAGTAGCAAACC  
AAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACCTTATTGAGAGTACCTAGGTGATGGGCCCCAACTCG  
GACGGGAATTGTTTCGAGTTGCTGAAGAACGTGCACCGTCCATTGTGTTTATTGATGAAATTGACGCCATTGGGA  
CAAAAAGATATGACTCCAATTCTGGTGGTGAGAGAGAAATTCAGCGAACAAACGTTGGAACTGCTGAACCAAGTTGG  
ATGGATTTGATTCTAGGGTAGATGTGAAAGCTATCATGGCCACAAACCAATAGAACTTTGGATCCAGCGCTTA  
TCAGACCAGGCCGATTGGCAGGAAGATTGAGTCCCCCTGCCTGATGAAAAGACGAAGAAGCCCATCTTTCAGA  
TTCACACAAGCAGGATGACGCTGGCTGATGATGTAACCCTGCACGACTTGATCATGGCTAAAGATGACCTCTCTG  
GTGCTGACATCAAGGCAGTCTGTACAGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGTAACAAATG  
AAGACTTCAAAAAATCTAAAGAAAATGTTCTTTATAAGAAACAGGAAGACACCCCTGAGGGGCTGTATCTCTAGT  
GAACTACGGCTGCCATCAGGAAAATGGTTGGGTGATTTCTCAGTCCCTGAAAGGGATGAGGCTGGGGGAGTTGCC  
CAGAGGAATCTCTGTTCCCATGATTTTTATTAGCAAAACATCCTGTGTCTTTTGGAGTACGATGTGTAAGTGCC  
CACTGGGTGGCCTGTCTGTGGTCACTGTGCAGCAGTCTGCTTCCCAATAAAGCGCGCTCTTTCACAA

3793/6881

**FIGURE 3495**

GCAAAGTGGCACTGGTGACACCTCACACTCAGTGCCAGTTAAAATTACTGAAGTTAGAGAGAATTAAAGACTATC  
TTCTCATGGAGGAAGAATTCATTAGAAATCAGGAACAAATGAAACCATTAGAAGAAAAGCAAGAAGGGAAAAGAT  
CAAAGTGGATGATCTGAGGGGGACCCAATGTCAGTAGGAATCTTGGAAGAGATCATTGATGACAATCATGCCA  
TCGTGTCTACATCTGTGGGCTCAGAACACTACATCAGCATTCTTTCAATTCAGACAAGGATCTTCTGGAACCTG  
GCTGCTCGGTCAGGCTCAACCACAAGGTGCATACCATGATAGGGGTGCTGATGGATGACATGGATCCCCTGGTCA  
CAGTGATGAAGATTCGGGAAATTAAGGAATCTGTGGAGCTTCCTCTCACCCTCCTGAATATTATGAAGAGATGG  
GTATAAAGCCTCCAAGGGGGTCATTCTCTGTGGTCCACCTGGCACAGGTAAAACCTTGTTAGCCAAAGCAGTAGC  
AAACCAAACCTCAGCCACTTTCTTGAGAGTGGTTGGCTCTGAACCTATTTCAGAAGTACCTAGGTGATGGGCCCAA  
ACTCGGACGGGAATTGTTTCGAGTTGCTGAAGAAC



3794/6881  
**FIGURE 3496**

CAAGAAATATGAGATAGAAGGGGAGGGGTAGGAGGAGAGGGAGGGTAGGAAGACAGTTTGCATTCTTGCAACA  
TTAAACCAAAGGGACTTGGAGTGCAGATGGCATCCTTCGGTTCTTCCAGACAAGCTGCAAGACGCTGACCATGGC  
CAAGATGGAGCTCTCGAAGGCCTTCTCTGGCCAGCGGACACTCCTATCTGCCATCCTCAGCATGCTATCACTCAG  
CTTCTCCACAACATCCCTGCTCAGCAACTACTGGTTTGTGGGCACACAGAAGGTGCCCAAGCCCCCTGTGCGAGAA  
AGGTCTGGCAGCCAAGTGCTTTGACATGCCAGTGTCCTGGATGGAGATACCAACACATCCACCCAGGAGGTGGT  
ACAATACAACCTGGGAGACTGGGGATGACCGGTTCTCCTTCCGGAGCTTCCGGAGTGGCATGTGGCTATCCTGTGA  
GGAAACTGTGGAAGAACCAGGGGAGAGGTGCCGAAGTTTCATTGAACTTACACCACCAGCCAAGAGAGGTGAGAA  
AGGACTACTGGAATTTGCCACGTTGCAAGGCCCATGTCACCCCACTCTCCGATTGAGAGGGAAGCGGTTGATGGA  
GAAGGCTTCCCTCCCTCCCTCCCTTGGGGCTTTGTGGCAAAAATCCTATGGTTATCCCTGGGAACGCAGATCA  
CCTACATCGGACTTCAATTCATCAGCTTCCTCCTGCTACTAACAGACTTGCTACTCACTGGGAACCCCTGCCTGTG  
GGCTCAAACCTGAGCGCCTTTGCTGCTGTTTCTCTGTCCTGTCAGGTCTCCTGGGGATGGTGGCCACATGATGT  
ATTACAAGTCTTCCAAGCGACTGTCAACTGGGTCCAGAAGACTGGAGACCACATGTTTGGAATTATGGCTGGG  
CCTTCTACATGGCCTGGCTCTCCTTCACCTGCTGCATGGCGTCGGCTGTCACCACCTTCAACACGTACACCAGGA  
TGGTGCTGGAGTTCAAGTGCAAGCATAGTAAGAGCTTCAAGGAAAACCCGAAGTGCCTACCACATCACCATCAGT  
GTTTCCCTCGGCGGCTGTCAAGTGCAGCCCCACCGTGGGTCTTTGACCAGCTACCACCAGTATCATAATCAGC  
CCATCCACTCTGTCTCTGAGGGAGTCGACTTCTACTCCGAGCTGCGGAACAAGGGATTTCAAAGAGGGGCCAGCC  
AGGAGCTGAAAGAAGCAGTTAGGTCATCTGTAGAGGAAGAGCAGTGTTAGGAGTTAAGCGGGTTTGGGGAGTAGG  
CTTGAGCCCTACCTTACACGTCTGCTGATTATCAACATGTGCTTAAGCCAAAAAAAAAAAAAAAAAAAA

3795/6881

**FIGURE 3497**

MELSKAFSGQRTLLSAILSMLSLSFSTTSLLSNYWFVGTQKVPKPLCEKGLAAKCFDMPVSLDGDINTSTQEYVQ  
YNWETGDDRFSSFRSFRSGMWLSCEETVEEPGERCRSFIELTPPAKRGEKGLLEFATLQGPCHPTLRFGGKRLMEK  
ASLPSPPGLGCGKNPMVIPGNADHLHRTSIHQLPATNRLATHWEPCLWAQTERLCCCFLCPVRSPGDGGPHDVF  
TSLPDCQLGSRRLETTCLLWLGLLHGLALLHLLHGVGCHHLQHVVHVDGAGVQVQA

3796/6881  
**FIGURE 3498**

ATAACAGCATGAAGTGCCGTGGAAGTGGAAATAGGCGTGCTCTCCCTCGACCCTCCCCCTCCTTGTCCTCTGCTG  
TCACCCCTCGCTCGTTCCCTCCCTCCGGCGAGGGCCGCTTTATAACAAGTCTCAGAGTGCGAGGGCGGGATAG  
CTGTCCAAGGTCTCCCCAGCACTGAGGAGCTCGCTGCTGCCCTCTGCGCGCGGGAAGCAGCACCAAGTTCAC  
GGCCAACGCCCTTGGCACTAGGGTCCAGAAATGGCTACAACAGTCCCTGATGGTTGCCGCAATGECCTGAAATCCAA  
GTACTACAGACTTTGTGATAAGGCTGAAGCTTGGGGCATCGTCTAGAAACGGTGCCACAGCCGGGGTTGTGAC  
CTCGGTGGCCTTCATGCTCACTCTCCGATCCTCGTCTGCAAGGTGCAGGACTCCAACAGGCGAAAAATGCTGCC  
TACTCAGTTTCTCTCTCTCTGGGTGTGTTGGGCATCTTTGGCCTCACCTTCGCCTTCATCATCGGACTGGACGG  
GAGCACAGGGCCACACGCTTCTTCTCTTTGGGATCCTCTTTTCCATCTGCTTCTCTCTGCTGCTGGCTCATGC  
TGTCAGTCTGACCAAGCTCGTCCGGGGGAGGAAGCCCTTTCCCTGTTGGTGATTCTGGGTCTGGCCGTGGGCTT  
CAGCCTAGTCCAGGATGTTATCGCTATTGAATATATTGCTCTGACCATGAATAGGACCAACGTCAATGTCTTTTC  
TGAGCTTTCCGCTCTCGTCGCAATGAAGACTTTGTCTCTGCTCACCTACGTCCTCTCTTGTATGGCGCTGAC  
CTTCTCATGTCCTCTTACCTTCTGTGGTTCTTACGGGCTGGAAGAGACATGGGGCCACATCTACCTCAC  
GATGCTCCTCTCCATTGCCATCTGGGTGGCCTGGATCACCTGCTCATGCTTCTGACTTTGACCGCAGGTGGGA  
TGACACCATCCTCAGCTCCGCCTTGGCTGCCAATGGCTGGGTGTTCTGTTGGCTTATGTTAGTCCCAGITTTG  
GCTGCTCACAAGCAACGAAACCCCATGGATTATCTGTTGAGGATGCTTCTGTAAACCTCAACTCGTGAAGAA  
GAGCTATGGTGTGGAGAACAGAGCCTACTCTCAAGAGGAAATCACTCAAGGTTTTGAAGAGACAGGGGACACGCT  
CTATGCCCCCTATTCCACACATTTTCAGCTGCAGAACCAGCCTCCCCAAAAGGAATTCTCCATCCCACGGGCCCCA  
CGCTTGGCCGAGCCCTTACAAAGACTATGAAGTAAAGAAAGAGGGCAGCTAACTCTGTCTGAAGAGTGGGACAA  
ATGCAGCCGGGCGGCAGATCTAGCGGGAGCTCAAAGGGATGTGGGCGAAATCTTGAGTCTTCTGAGAAAAGTGA  
CAAGACACTACGGGAACAGTTTGCCTCCCTCCCAGCCTCAACCACAATTCTTCCATGCTGGGGCTGATGTGGGCT  
AGTAAGACTCCAGTTCTTAGAGGCGCTGTAGTATTTTTTTTTTTTGTCTCATCCTTTGGATACTTCTTTTAAGT  
GGGAGTCTCAGGCAACTCAAGTTTAGACCTTACTCTTTTGTGTTGTTTTTGAAACAGGATCTTGCTCTGTAC  
CCAGGCTTGAGTGCAGTGGTGCGATCACAGCCAGTGCAGCCTCGACCACCTGTGCTCAAGCAATCCTCCCATCT  
CCATCTCCCAAAGTGTGGGATGACAGGCGTGAGCCACAGCTCCCAGCCTAGGCCCTTAATCTTGCTGTTATTTT  
CCATGGACTAAAGGTCTGGTCATCTGAGCTCACGCTGGCTCACACAGCTCTAGGGGCTGCTCCTCTAACTCACA  
GTGGGTTTTGTGAGGCTCTGTGGCCAGAGCAGACCTGCATATCTGAGCAAAAATAGCAAAAGCCTCTCTCAGCC  
CACTGGCCTGAATCTACACTGGAAGCCAACTTGCTGGCACCCCGCTCCCCAACCTTCTTGCTGGGTAGGAGA  
GGCTAAAGATCACCTAAATTTACTCATCTCTCTAGTGTGCTTACATTGGGCCTCAGCAGCTCCCCAGCACCA  
ATTCACAGGTACCCCTCTCTTCTTGCACTGTCCCCAACTTGCTGTCAATTCGAGATCTAATCTCCCCCTACG  
CTCTGCCAGGAATTTCTCAGACCTCACTAGCACAGCCCGGTTGCTCCTTGTCAGGAGAATTTGTAGATCATTC  
TCACTTCAAATTCCTGGGGCTGATACTTCTCTCATCTTGACCCCCAACCTCTGTAAATAGATTTACCGCATTTAC  
GGCTGCATTCTGTAAAGTGGGCATGGTCTCCTAATGGAGGAGTGTTCATTGTATAATAAGTTATTCACCTGAGTAT  
GCAATAAAGATGTGGTGGCCACTCTTTCATGGTGGTGGCAGCAAAAAAAAAAAAAA

3797/6881

**FIGURE 3499**

MATTVPDGCNGLKSKYYRLCDKAEAWGIVLETVATAGVVTSVAFMLTLPILVCKVQDSNRRKMLPTQFLFLGV  
LGIFGLTFAFIIGLDGSTGPTRFLLFGILFSICFSCLLAHAVSLTKLVRGRKPLSLLVILGLAVGFSLVQDVIAI  
EYIVLTMNRTNVNVFSELSAPRRNEDFVLLTTYVLFMLALTFLMSSFTFCGSFTGWKRHGAHIYLTMLLSIAIWV  
AWITLLMLPDPDRRWDDTILSSALAANGWVFLLAYVSPEFWLLTKQRNPMDYVEDAFCKPQLVKKSYGVENRAY  
SQEITQGFEETGDTLYAPYSTHFQLQNQPPQKEFSIPRAHAWPSPYKDYEVKKEGS

3798/6881  
**FIGURE 3500**

GGTACCTCGTGGAGAAGACGGGGGAGGGGAGCAGCGAGATTTCCTTGCGGAGCAATATTCCTAGGGTACAGACCT  
CGTAGCCCGGGCCCCGCGACTCCGCCCCGGGAGCGGGCAGGGGCGGGGCGAGCGCTCCAGCTGGCGGGAAGGAGGA  
AGGGCCGGGGCGCGGGCGCAGAGGCGGGCGCCTACCAGCCGGCAGCTCCGGAGCTGCCCGCGCCATGTCCGCGCACA  
ATCGGGGCACCGAGCTCGACCTTAGCTGGATCTCCAAAATACAAGTGAATCACCCGGCAGTTCTGAGGCGTGCGG  
AACAAATCCAGGCTCGCAGAACCGTGAAAAAGGAGTGGCAGGCTGCTTGGCTCCTGAAAGCTGTTACCTTTATAG  
ATCTTACTACACTTTTCAGGTGATGATACATCTTCCAACATTCAAAGGCTCTGTTATAAAGCCAAATACCCAATCC  
GGGAAGATCTCTTAAAAGCTTTAAATATGCATGATAAAGGCATTACTACAGCCGCCGTTTGTGTTTATCCCGCCC  
GGGIGTGTGATGCTGTAAAAGCACTCAAGGCTGCAGGCTGTAATATCCCTGTGGCATCAGTGGCCGCTGGATTTT  
CAGCTGGACAGACTCATTGAAGACACGATTAGAAGAGATCAGATTGGCTGTGGAAGATGGAGCTACAGAAATCG  
ACGTGGTAATTAACAGAAGCTTGGTGCTGACAGGCCAGTGGGAAGCCCTGTATGATGAGATTCTGCAGTTTCGCA  
AGGCCTGTGGGGAGGCTCATCTTAAACTATATTAGCGACAGGAGAACTTGGAACCTTACTAATGTCTATAAAG  
CCAGTATGATAGCAATGATGGCAGGATCAGATTTTATTAAGACCTCTACTGGAAAAGAAACAGTAAATGCCACCT  
TCCCGGTAGCTATAGTAATGCTGCGGGCCATTAGAGATTTCTTCTGGAAGCTGGAACAAGATAGGGTTTAAAC  
CAGCAGGAGGCATCCGCAGTGCAAAGGATTCCCTTGCTTGGCTCTCTCTTGTAAAGGAGGAGCTTGGAGATGAGT  
GGCTGAAGCCAGAACCTTTTGAATAGGTGCCAGTACTCTGCTCTCGGACATTGAGAGGCAGATTTACCATCATG  
TGACTGGAAGATATGCAGCTTATCATGATCTTCCAATGTCTTAAATCAGTCACCAAGTCCAGAAAAGTTCTTTAC  
GACAATGTTTAAAAATTATTTTCTACGTAATTGCTAAAATTATTTAATTAAAAAATTGGGCAGTAGGTAACCTGG  
CATTCTCTCTTTAAATTTCTACCGAACTTAATGGAATGGAAAAAGCAAACCTCATCCACATGTGGTACTCATT  
CAGGCACATCTGAAATGATCTTAATTACTAGAAGATCTGCACTATTAACCTTGTGAAGAGTTTCTCCTAAAACT  
TTAAGTAAATGTTAATGGTAGCTTTGATAACATCAAATCTAAGGGAGAAAAACAATATTAAACCGCCCAAG  
CAGTGTGCCCTAGCAGAGGAAAAATGCAACATCTCGCAAGCGCTGCTGTAACGACTTCAGGAGTCACTGATTGAGC  
ACTAATTTCTGCTGTGAAAACTCATCTTTTCAATTTTGCCGTGGATAGGCGCTTTTATTAATTGTTGTCCTAATG  
AAATTTCTGACATTGTCATATACAACGATGAATATCATTAAAAATTTTAA

3799/6881  
**FIGURE 3501**

TGTGGACGCTGTGAATCGTGGCTGGCCCGGTTCTCCGCTTCTCCCCATCCCCTACTTTCCTCCCTCCCTCCCTTT  
CCCTCCCTCGTCGACTGTTTCTTGCTGGTCGCAGACTCCCTGACCCCTCCCTCACCCTCCCTAACCTCGGTGCC  
ACCGGATTGCCCTTCTTTTCTGTTGCCAGCCAGCCCTAGTGTGAGGGCGGGGGCTGGAGCAGCCGAGGCA  
CTGCAGCAGAAGAGAGAAAAGACAACGACGACCCTCAGCTCGCCAGTCCGGTCGCTGGCTTCGCCGCCGCCATGG  
CAATGAGACAGACGCCGCTCACCTGCTCTGGCCACACGCGACCCGTGGTTGATTGCGCTTCAGTGGCATCACGC  
CTTATGGGTATTTCTTAATCAGCGCTTGCAAAGATGGTAAACCTATGCTACGCCAGGGAGATACAGGAGACTGGA  
TTGGAACATTTTGGGTCATAAAGGTGCTGTTTGGGGTGCAACACTGAATAAGGATGCCACCAAAGCAGTACAG  
CAGCTGCAGATTTACAGCCAAAGTGTGGGATGCTGTCTCAGGAGATGAATTGATGACCCTGGCTCATAAACACA  
TTGTCAAGACTGTGGATTTACGCAGGATAGTAATTATTTGTTAACCGGGGGACAGGATAAACTGTTACGCATAT  
ATGACTTGAACAAACCTGAAGCAGAACCTAAGGAAATTAGTGGTCATACTTCTGGTATAAAAAAGCTCTGTGGT  
GCAGTGAGGATAAACAGATTCTTCTGCTGATGACAAAAGTGTTCGACTTTGGGATCATGCTACTATGACAGAAG  
TGAAATCTCTAAATTTTAATATGTCTGTTAGTAGTATGGAATATATTCCTGAGGGAGAGATTTTGTTATAACTT  
ATGGACGATCTATTGCTTTTTCATAGTGCAGTAAGTTGGACCCAATTAAATCCTTTGAAGCTCCTGCAACCATCA  
ATTCTGCATCTCTTCATCCTGAGAAAGAATTTCTTGTGTCAGGCGGTGAAGATTTTAACTTTATAAGTATGATT  
ATAATAGTGGAGAAGAATTAGAATCCTACAAGGGACACTTTGGTCCTATTCAGTGTGTGAGATTTAGTCCTGATG  
GAGAACTCTATGCCAGTGGTTCAGAAGATGGAACATTGAGACTATGGCAAAGTGTGGTAGGAAAAACGTATGGCC  
TTTGAAATGTGTGCTTCTGAAGAAGATAGTGGTGAGCTGGCAAAGCCAAAGATTGGTTTTCCAGAGACAACAG  
AAGAGGAGCTAGAAGAAATTGCTTCAGAGAATTGAGAGTGCATCTTCTTCAGCTCCTGATGTTAAGGCCTGAG  
CGTCAATCATATGTTGCAGTTAGTATACAAGTGAATAAACAAGCAAGCAGAGAAAAGCATCAGCCTTCCAGAGT  
TACTGTCTGCTTAAGGCAGAAACAGCAGTAAATAATGAGGAAAATGAATTAGCTCCAGTGTGGAACAACCTAACT  
AACTTGGTGTACCTGTAAGTGAAAACCTCAAGTGTGAGATGAAGGGAGGTGGAGTTATCCTCTTATAGTACAGTG  
GCCTGTTATCTTTTAAATGAATATATACAAGCCAACATCCAATTTCTATTATTACAATTAGGGTTCTTGTAGCTG  
TTTATGTTAATATGGAGAAGAAAACCTATATTGGCTGATTTTTTCTGATCTTAAAGCAGAAATGCCTTTTCTTTT  
TTGCTTCAGTTGTAAAGAAGAGGGAATACATGATAAAGTAACTGGTTTGATTTCTCGTTTCATTGTACACTGCCTC  
TGAACATCTAATTGTTTTTAGTTGTCTAAATAAAATGCCTCTAAACAAAAAAAAAAAAAAAAAAAAA

3800/6881

**FIGURE 3502**

MAMRQTPLTCSGHTRPVVDLAFSGITPYGYFLISACKDGKPMRLRQDGTGDWIGTFLGHKGAVWGATLNKDATKAA  
TAAADFTAKVWDVAVSGDELMTLAHKHIVKTVDFQTQDSNYLLTGGQDKLLRIYDLNKPEAEPKEISGHTSGIKKAL  
WCSEDKQILSADDKTVRLWDHATMTEVKSLNFMNSVSSMEYIPEGEILVITYGRSIAFHSAVSLDPIKSFEAPAT  
INSASLHPEKEFLVAGGEDFKLYKYDYNSGEELESYKGHFGPIHCVRFPDGEIYASGSEDGTLRLWQTVVGKTY  
GLWKCVLPEEDSGELAKPKIGFPETTEEELEEIASENSECIFPSAPDVKA

3801/6881  
**FIGURE 3503**

CCAGGGTTTCCTCTTCAAGTAGGTCTAAAACATTTTTTTTTCTCATTGACTTCCTTCCTGTTCTAACTGCCAGTA  
CTCAGAAGTCAGAGTTGAGAGACAGAGGCACCCCGACAGAGACGTGAAGCACTGAATAAATAGATCAGAATGAC  
TGAAAAAGCCCCAGAGCCACATGTGGAGGAGGATGATGATGATGAGCTGGACAGCAAGCTCAATTATAAGCCTCC  
ACCACAGAAGTCCCTGAAAGAGCTGCAGGAAATGGACAAAGATGATGAGAGTCTAATTAAGTACAAGAAAACGCT  
GCTGGGAGATGGTCTGTGGTGACAGATCCGAAAGCCCCCAATGTCGTTGTCACCCGGCTCACCTGGTTTGTGA  
GAGTGCCCCGGGACCAATCACCATGGACCTTACTGGAGATCTGGAAGCCCTCAAAAAGGAAACCATTGTGTTAAA  
GGAAGGTTCTGAATATAGAGTCAAATTCACITCAAAGTGAACAGGGATATTGTGTCAGGCCTGAAATACGTTCA  
GCACACCTACAGGACTGGGGTGAAAGTGGATAAAGCAACATTTATGGTTGGCAGCTATGGACCTCGGCCTGAGGA  
GTATGAGTTCTCACTCCAGTTGAGGAGGCTCCCAAGGGCATGCTGGCGCGAGGCACGTACCACAACAAGTCCTT  
CTTCACCGACGATGACAAGCAAGACCACCTCAGCTGGGAGTGGAACCTGTGCGATTAAAGAAGGAGTGGACAGAATG  
AATGCATCCACCCCTTTCCCCACCCTTGCCACCTGGAAGAATTCCTCTCAGGCGTGTTCAGCACCCCTGTCCCTCCT  
CCCTGTCCACAGCTGGGTCCCTCTTCAACACTGCCACATTTCCCTTATTGATGCATCTTTTCCCACCCTGTCACTC  
AACGTGGTCCCTAGAACAAGAGGCTTAAAACCGGGCTTTACCCAACTGCTCCCTCTGATCCTCCATCAGGGCC  
AGATCTTCCACGTCTCCATCTCAGTACACAATCATTAAATATTTCCCTGTCTTACCCCTATTCAAGCAACTAGAG  
GCCAGAAAATGGGCAAATTATCACTAACAGGTCTTTGACTCAGGTTCCAGTAGTTTATTCTAATGCCTAGATTCT  
TTTGTTGGTTGTGCTGGCCCAATGAGTCCCTAGTCACATCCCCTGCCAGAGGGAGTTCTTCTTTTGTGAGAGACA  
CTGTAAACGACACAAGAGAACAAGAATAAAACAATAACTGTG



3802/6881  
**FIGURE 3504A**

ATGCGCGACCTGGAGGAGCTCTCCCGCCTGAGCCCTCTGCCCCCGGCAGCCCGGGTTCGGCGGCGCGGGGCCGG  
GCTGAGCCCCCAGGAGGAGGAGGAAGAGGAGGAGGAGGAAGAGGAGGCGGAGGCCGAGGCGGTGGCGGCGCTG  
CTGCTGAACGGCGGCAGCGGTGGGGGCGGCGGAGGCGGCGGAGGAGTGGGGGCGGCGAGGCAGAGACGATG  
TCGGAGCCGAGCCCCGAGAGGCCAGCCAGGCCGGGAGGACGAAGACGAGGAGGAGGACGACGAGGAGGAGGAA  
GATGAGAGCAGCAGCAGCGCGGGGGTGAGGAGGAGAGTAGCGCCGAGAGCCTGGTGGGCAGCAGCGGCGGGAGC  
AGCAGCGACGAGACCCGCTCGTTAGCCCCGGCGGCCAGCAGCAGCAGCGGGGATGGGGACGGCAAGGAGGGC  
CTGGAGGAGCCCAAGGGACCGCGGGGAGCCAGGGCGGCGGGGGCGGCAGCAGTAGCAGCAGCGTAGTCTCC  
AGCGGCGGCGACGAGGGCTACGGGACTGGGGGAGGCGGAAGCAGCGCGACCTCCGGGGCGGCGGGGCAGCTTG  
GAGATGTCGTCGGATGGGGAACCCCTGAGCCGATGACTCGGAGGACAGCATAAGCAGTACTATAATGGATGTA  
GACAGCACAATTTCCAGTGGGCGTTCAACTCCAGCAATGATGAATGGACAAGGAAGCACTACTTCTTCAAGCAAA  
AATATTGCCTATAATTGTTGTTGGGACCAAGTGCAGGCTTGCTTCAACTCTAGCCAGATCTGGCAGATCACATC  
CGTTCCATACATGTAGATGGTCAGCGAGGAGGGGTATTGTTTGTCTTATGGAAGGTTGTAAGTATATAACACT  
CCATCTACCAAGTCAAAGTTGGTTACAAAGGCATATGCTGACACACAGTGGAGACAAACCTTTCAAGTGTGTTGTT  
GGTGGCTGCAATGCCAGCTTTGCTTCTCAGGGAGGGCTAGCTCGTCATGTACCCACACACTTCAGTCAGCAGAAC  
TCCTCAAAAGTTTCTAGCCAGCCAAAGGCCAAAGAAGATCTCCTTCTAAAGCTGGAATGAACAAAAGGAGGAAA  
TTAAAGAACAAAAGACGACGCTCATTACCACGGCCACATGATTTCTTCGATGCACAAACACTGGATGCGATAAGA  
CATCGAGCCATATGCTTTAACCTCTCAGCTCATATAGAAAGTTTAGGGAAGGGACACAGTGTGTTTTTCATAGT  
ACTGTAATAGCTAAGAGAAAAGAAGATTCTGGGAAGATCAAACTTTTGCTTCATTGGATGCCTGAAGACATTCTG  
CCTGATGTGTGGTGAATGAAAGTGAACGACATCAGTTAAAAACTAAAGTAGTTCAITTTATCAAAAGCTACCCAAA  
GATACTGCCTTGCTTTTGGACCCAAACATATACAGAACAAATGCCGAGAGAGGTTGAAGAGGTAAAAAATAAAT  
AAATACATAAAAAGCAAACAAGCGGGGACACCTGCAGTCTTAGTCACTGACAATGGGTTTAGGGAAAGTTGCACA  
TTAGAGTCAACCCCTTCTTTTTTTTTTTTTTTTTTTTTTAAATCCAGTATTTAGGATAATATTTATGCTTAGTGTA  
ACATTCTGTGAATGAAGTAGACTCTTCGGTGAATATATTAATATATTAATGCTATATCCACATTTTCATGGAATG  
GTACTGTGGGAGACTGAGCAAACACTCTTTTGGCAACTTAGTAGAACAGCTTCTTAAAGGCTTTCATGCTTGCT  
GCTTTAAGCTGCTTTTTTTTTTTCTTTCTTCCCTTTAGTGATTTTCAGTAGTTTATATTGGAAAGAAAAACAATTA  
CAACATGTGCCCTTACAAATACCAAAGCACTGTAAGGATATTTGTCTTGACAGTGTATTATTGATTGTAAGTCAT  
ATTAGGAAATATTTAGACAATGAAAATTATCAAGAGATAATTTACCTTTCAATTATGATAAATAGATGTGATTGG  
TTGCCATTTGTGTTCTTTTGCAAGTCTGATAAGAAAAGTGTTCATTTGTATTTAAGCAAACAGTGAACGACG  
TTTGCAATCACTAAAAATTGCTCTATCGAATTAGGGCTGAAAATTACTGTAAAGAGTGTGTCAGTATGCTGG  
TGGCTCCCTTTTCAGGACTAGGGCTTCTCATGGAGTACAGTATGTTAATATTTACCTATATAACTAATCTGTTA  
ACGGTTTTTTGAAAAACCTTTCAAATTATTTGAATAATCTTCATATTTTCAATTAACCTATATGACTCTAATTTTT  
TTTCTGAGGAAATCATTGGTTTTGAGTTGTTTTTCTTAATGTAAGAAAAATTGTATTTTTTTTACAAGTATC  
TTCAAATGAATCTTTATGCACCAAAGTTGGTCTTGAAAAGGAAAAATAAATCACTTTCTTGCTTGGAAGCAA  
GAAGCCATATCGATTTTTTTTAACTTACAGAAATGGAATATGTGTAACCTGTTAGTATTGTATTAACAAATGT  
TGCATAGAGATAATAGAACATTGCTTGTAATAATTCAGCAGATTGTAATATATTTTTATATTTGAAATGTAC  
TGATAGATGTTTTCTAGAGGCATGAAAGTTAAATGTATATATATGGTAGAAATAATATTGAAGGATATTGTACTT  
CACTAGTGCTGCCAGAGGAATTGTTAATAAAAGCACCTTCTTTAACAATAAATGTCTTTCACAGACTTAAGGGAC  
TATGTACTACGTGAATATCTCTAAGAACAAAACACATTGAACATCCTTCCAGAAAGTCTTGAGGGAGGACCTA  
TACCCATAATAGAATTATGGCACTCATTCTGACAGTGATCAAGAAATCAGTTATTTCCCTACTGTTGGAAGGAC  
ATTGTAAAGTATGTGGTTATATGCAGTGAACTGCAGAAAATACCTCGGTTGAGGAGTTTCACTTTACTACAG  
TGATATAAAAACCAGCAGTTTTTACACTAAATTTTTTAAAGAAATATTAGACAAAATATAGAATTAAACCTTT  
GGTTCCAAATGGGAAAGGTTCCACGATACATAAATCATTCTCATTGCTTTAAAAAATTAAAGTGTAAGGAA  
TTATGAGAGACTTTATTCGTTAACAATGGGGGTAAAGAGCTATATACATGAAATGAGTCTTATAAAATTAAGTG  
AAGTGCAAATAAAAGCACTGCTACTATAAGACATTCTGGAATGGTTGTTAATAAGGGTATTATCCATTTGATCT  
ATAGCAATGTGATTTTATTTTTTAAAGAAAAGCAGTGTTTCTTTTTTGTGTTTCTTTTGCTTAAGCAC  
TTCATCAATTGCTTTATTTCTGTATCTGCGAAGTAATCTGCAATCTTTTTGTTCTTTTTTAAATTTGATTTGTTA  
TAAATTTGCCAAATAGAAGTGTTCAGATACATAGTTGTACCTGTATTTTTATTTTATGCTCATGTTCTTGT  
AAGTCATTCTTAATTGACCAATGATTGTAGACCTTGCTTGAGTATTTTTTCTAATAAAACAAAGCAAATCACATT

3803/6881

**FIGURE 3504B**

TAGCTTCAAATTGTAACAATTCAATTGAATTTTAAAATGACACCTGAAAAGATACATCTGATATTTTCTATATAG  
AGCACAGTAAATAAGTTTTTCATTGTGTAGAAATACTTAGATGTCAAAACCAGATTTCGTGATCCTTGATTAC  
TTCTGAGTACTCAATCAATCATAATCCTTTTGCTGCTTATCTGATGTTGGTTTGATACTGTTAACACACCAAAAA  
GAATATGGAATTGAAATGAGCTAGCTTTATAACTTGTATGTATACATATATACATAACATCCAATTATGACTG  
GGTAATAAGTGTGAAAATTTTAATTTGTGGTTTTTCATTATTAATGTCTGCCCATCTGTATTGTTGCTCCTACCT  
TCAAATATGACACCTGAAATAATAAGTCTGTTGTCCAGAATT

3804/6881  
**FIGURE 3505**

MSSDGEPLSRMDESDSISSTIMVDSTISSGRSTPAMMNGQGSTTSSSKNIAYNCCWDQCQACFNSSPDLADHIR .  
SIHVDGQRRGVFVCLWKGCKVYNTPSTSQSWLQRHMLTHSGDKPFKCVVGGCNASFASQGGLARHVPTHFSSQNS  
SKVSSQPKAKEESP SKAGMNRRLKLNKRRRSLPRPHDFFDAQTLDAIRHRAICFNLSAHIESLGKGHSVVFHST  
VIAKRKEDSGKIKLLHWMPELILPDVWVNESERHQLKTKVVHLSKLPKDTALLDPNIYRTMPQKRLKR

3805/6881  
**FIGURE 3506A**

CAAAAGAAAGGAAGAAAGTCACAAAGGGCTGTCTGAGGCACATGATTGTGAAGAGTTAAAGGGAAAAATCCATTCT  
TCTGCTTTGTGAGAGCTCTCAAGCTAAAGTAAATGAGCCTTTAGAAGCCAAACATGCAGCTAACAAAGGTATGTA  
TCCATGTCTGTGGACACTAGTTGAGATTTTGGTCCAGGAAAAGCTGAGGTTTGGTTGGGGGAGGTGAAGCGAGG  
AGGCCAAGAGCACCACCTGGCTGCACCCCGTCACCGGCGAGGCGGTGGTCACCGGACACCGGCGGCAGAGCACAG  
CCTAGACGACCCTCGCGACCCCTAGAGTGGCGACGCTCCCTCCCTGAAACCTGGAGTCCTGAGTTTTCTCTCCGC  
GGCCGCTACTCACTCCCGGTGACCCCGAGCTGCCGTCTTGCCCCCAGCAATCTTCAGGCAGTCCTTACCCACT  
CCCCTCCCTGCAGCCCCGACCCCGATCGCCCGCCGGGATAACCGTGGCAGTTGGCTTCTAAGAGGAATTATCCT  
AGGAGAACAGACCACAGTTTTAGACACTTATAAACTTCTGCTTATATCATGCTTTCCCATGTGGTCCTGGTTGA  
TGTATCAGATGGAAGGCAGATACGTTTAAAGTCATGAGCGAGATCCACCCATCCTCATGTATCAGTTACAAATGCA  
CTGTCTACCTGCGTTAGGACAAATGCACTAAAAGTGTATAAAGTCTTCAGAGGATATTAGTTGTCATAGAAGT  
ACTTTTCACTCCGCTTTCCCAAAGGGAAATACATGATTACAGACAAATCATATAAATGGGTACACATCCATAATGA  
AAGGAAAGTGACCTGCAACATCCAGTCACAGGACAACCATCACAGGACAATTGTATTTTTGTAGTGAATGAACA  
GACTGTTGCAACCATGACATCTGAAGAAAAGGAACGGCCAATAAGTATGATAAATGAAGCTTCTAACTATAA  
CGTGACTTCAGATTATGCAGTGCATCCAATGAGCCCTGTAGGCAGAACTTCACGAGCTTCAAAAAAGTTTCATAA  
TTTTGGAAAGAGGTCAAATTCAATTAAAAGGAATCCTAATGCACCGGTTGTGACAGGAGGTTGGCTTTATAACA  
GGACAGTACTGGCATGAAATTGTGGAAGAAACGCTGGTTTGTGCTTTCTGACCTTTGCCTCTTTTATTATAGAGA  
TGAGAAAGAAGAGGGTATCCTGGGAAGCATACTGTTACCTAGTTTTTCAAGATAGCTTTGCTTACCTCTGAAGATCA  
CATTAAATCGCAAATATGCTTTTAAAGGCAGCCCATCCAAACATGCGGACCTATTATTTCTGCAGTATACAGGAAA  
GGAAATGGAGTTGTGGATGAAAGCCATGTTAGATGCTGCCCTAGTACAGACAGAACCTGTGAAAAGAGTGGACAA  
GATTACATCTGAAAATGCACCAACTAAAGAAACCAATAACATTCCCAACCATAGAGTGCTAATTAAACCAGAGAT  
CCAAACAATCAAAAAACAAGGAAATGAGCAAAATTAAGAAAAAAGGCATTAGAAGCTGAAAAATATGGATT  
TCAGAAAGGATGGTCAAGATAGACCCTTAACAAAAATTAATAGTGTAAAGCTGAATTCTCTGCCATCTGAATATGA  
GAGTGGGTCAGCATGCCCTGCTCAGACTGTGCACTACAGACCAATCAACTTGAGCAGTTCAGAGAACAAAATAGT  
CAATGTTAGCCTGGCAGATCTTAGAGGTGGAAATCGCCCCAATACAGGGCCCTTATACACAGAGGCCGATCGAGT  
CATACAGAGAACAAATTCATGCAGCAGTTGGAACAGTGGATTAAATCCAGAAGGGGAGGGGTCATGAAGAAGA  
AACCAGGGGAAATATGCCAAGTCACAGAGCCAGATTATGGCCCGCTACCCTGAAGGTTATAGAACACTCCCAAG  
AAACAGCAAGACAAGGCCGTGAAAGTATCTGCAGTGTAACCCCTTCCACTCATGACAAGACATTAGGACCCGGAGC  
GGAGGAGAAACGGAGGTCCATGAGAGATGACACAATGTGGCAGCTCTACGAATGGCAGCAGCGTCAGTTTTATAA  
CAAACAGAGCACCCTCCCTCGACACAGTACTTTGAGTAGTCCCAAAACCATGGTAAATATTTCTGACCAGACAAT  
GCACTCTATTCCACATCACCTTCCACGGGTCAATAGCTGCTTATCAGGGATACTCCCTCAACGAACTTACAG  
ATCGGAAGTGTCTTCACCAATTACAGAGAGGAGATGTGACAATAGACCGCAGACACAGGGCCCATCACCTAAGCC  
AGAGGAGCTTACGCTGTGCTAATAAAGCTGAGACGGCAGCAAGCCGAACAGTAGTATCCGGGAGCATACGTT  
AGCACAGCTCATGCAGCTAAAGCTTGAGGCCACAGCCCAAGGTGGGAAGCCCTCCTGTGTCTCCCGTGGCA  
TCTGACCTCTGACACGTTGATGAATGATGTAAGTGTGAAAAGAGATGGAACCTGCAATTGCAGTGATCATAT  
TAGCATGCAAGTAATTAACAAGTTGCACCTGGTGAGTAGGAAGGCAGGCAGCCAGAGGCTCCAGAGCCATCAGAA  
GGGCTGTGAGGGCACAAGACTGCCAAGAAAGAAAGGAAAGTGACTGTCTACTGGAAGAATCTGTGCAGGCTCCATC  
ACAGGCAGCTGCAGCTCTGTATGAGGGCTCTGGGGGAGCTGGGAACCTGTGCTTCTATGTGGGAACATGCTCCA  
CTGTTTCCAGCTTTGTATAGAAATTTCTAATCATATAAATCTCAGTATTCTTGGACATCAAGGAAGTCTTATATT  
TTAAGCAACCCTGTCTGTACCATCTTCCCAACAACCCACCACCATCTGTTTGTATGCCTACACAGAAGATAT  
AAGCCAGTGGATCCTACATTTTTTTCAAGTATTTGCTGAAATACAAAGATTTATCAAAATTGCTAAGAAGCAGGG  
CTCATTCAGGCTCGAGGACGCTCTTGATGTGAATTAACCCACAGGAGACTGATGCACAAAACCAGAATAGAGC  
TTTATTTTACAATAAGAATTGTATAACTGCCGAGAGGTGAGAGAAGGACAGTGGGAAAATCACATTCTCTGTCTCA  
AAGGCAGACTCTCCAGAAAGCCAGTTTACCGGGAAGTGGGGGATAACGAGAACATACGGAGGCAGCAGAGCGT  
TGGCACCCTACTGATGATGCTACCTATTGCACATCACCTTCACTGGGTACTCAGTCAGTAGTACCATGTGCTAT  
CTACATAGCTATCTCTCAGGTTCTCTTTGCATTCTCATCCGTACTGCTGATTACATGGGCCCCAAGTGGACATA  
CATGTACATCGGGTACGAGCATCGATCCGTCACTGGCTGCCCTTGGAGCTGGCTTCTCTGACAAGACTCTCTGC  
TCACACTGTACCATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTATGCAACTTTGGTCAGCAGAA  
ACACAATACGAGCCTCTGGCTAGCTAAGGCACTCTATTCTGAAAGTACGGAAAACATGCACGGTCAGATTTTGGC

3806/6881

**FIGURE 3506B**

AAATTTTAAAGCCATGGATTCTGATTGGTTTGCAGAAACTACATGGGTAGAAAAACCAAGAAGTTTAAATAACTG  
GGGTGGATCTCTGTCCCTGGGACACCCATTTGGAGCCACTGGCTGCAGGTTGGTCATGGCTGCTGCAACAGATTA  
CGGAAAGAAGGAGGCCAAGGAAGTCTCCACGGTCCCTCATTACATCTTCACCATTCTCAACACCCCTCCAGGGCGT  
CTTCATCCTATTGTTTGGTTGCCTCATGGACAGGAAGATACAAGAAGCTTTGCGCAAACGCTTCTGCCGCGCCCA  
AGCCCCCAGCTCCACCATCTCCCTGACTGATGGTGCATCTGCAATGTTAATCATGGCGGAGGAAAAGGCTCTGGC  
CAGTGCGGTTATGAAGCCGGACGTTATTTTGGAGGTAAAGTAAATGTTCAAACAAATCATCTCTGA

3807/6881  
**FIGURE 3507**

CTCTTTTTCCAGCTGGAACCATGGAGTGTGTAGAAAGAGAAGAAGTTCTTGCTGTGCCAGAAACCCTTAAGAAAA  
AGCGAAGGAATTTTGCAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAGACGCTTCGAAAGACAA  
GGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAGGAATACAGGCAGATGTACAGAACTGAAATTCGAA  
AGGCGAGGATGGCAAGAAAAGCTGGCAATTTCTATGTACCTGCAGAACCCAAATTGGCATTGTGTCGTCAGAAATCA  
GAGGTGTCAATGGCGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTCAATGGCA  
CCTTTGTGAAGCTCGACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACCCCA  
ATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAATGAATAAGAAGCGAATTGCTTTGACAG  
ATAACACTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCATGGAGGATCTGATTCATGAGATCTATA  
CTGTTGGAAAAGGCTTCAAAGAGGCAAATAACTTCCTGTGGGCCTTCAAATTGTCTTCTCCACGAGGTGGAATGA  
AGAAAAAGACCACCCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGGTCAACAGGCTTATTAGAA  
GAATGAACTAAGGTGTCTACCATGATTATTTTTCTAAGCTGGTCGGTTAATAAACAGTACCTGCTCTCAAA

3808/6881  
**FIGURE 3508**

MECVEEKKVLAVPETLKKKRRNFAELKIKRLRKKFAQKTLRKTRRKLIEKAKHYHKEYRQMYRTEIRKARMARK  
AGNFYVPAEPKLAFFVVRIRGVNGVSPKVRKVLQLRLRQIFNGTFVKLDKASINMLRIVEPYIAWGYPNLKSUNE  
LIYKRGYGMNKKRIALTDNTLIARSLGKYGIICMEDLIHEIYTVGKGFKEANNFLWAFKLSSPRGGMKKKTTHF  
VEGGDAGNREDQVNRLIRRMN

3809/6881  
**FIGURE 3509**

GATCCCAGAGGAGGAAGTCCAGAGACAGAGCACCATGACTTCTGAGAAAGGAGAAGAATCGAACCCCTGGGAGTTT  
GACGTCTTCTATGACCCAGAGAACTTCGTAAAGAGGCCTGTCTGCTCTACGAAATCAAGTGGGGCATTGAGCCGG  
AAGATCTGGCGAAGCTCAGGCAAAAACACCACCAATCACGTGGAAGTTAATTTATAAAAAAATTTACGTCAGAA  
AGAGATTTTCACCCATCCATCAGCTGCTCCATCACCTGGTTCTTGTCTGGAGTCCCTGCTGGGAATGCTCCCAG  
GCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGATCTACGTAGCTCGGCTTTTTTGGCACATG  
GATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGTAACIATTCAGATTATGAGAGCATCAGAG  
TATTATCACTGCTGGAGGAATTTTGTCAACTACCCACCTGGGGATGAAGCTCACTGGCCACAATACCCACCTCTG  
TGGATGATGTTGTACGCACTGGAGCTGCACTGCATAATTCTAAGTCTTCCACCCTGTTTAAAGATTTCAAGAAGA  
TGGCAAAATCATCTTACATTTTTTCAGACTTCATCTTCAAACCTGCCATTACCAAACGATTCCGCCACACATCCTT  
TTAGCTACAGGGCTGATACATCCTTCTGTGGCTTGGAGATGAATAGGATGATTCCGTGTGTGTACTGATTCAAGA  
ACAAGCAATGATGACCCACTAAAGAGTGAATGCCATTTAGAATCTAGAAATGTTTACAAGGTACCCCAAACTCT  
GTAGCTTAAACCAACAATAAATATGTATTACCTCTGGC



3810/6881  
**FIGURE 3510**

MTSEKGEEENPGSLTSSMTPENFVKRPVCSTKSSGA

3811/6881  
**FIGURE 3511**

GATCCCAGAGGAGGAAGTCCAGAGACAGAGCACCATGACTTCTGAGAAAGGTCCTTCAACCGGTGACCCCACTCT  
GAGGAGAAGAATCGAACCCCTGGGAGTTTGACGTCTTCTATGACCCAGAGAACTTCGTAAAGAGGCCTGTCTGCT  
CTACGAAATCAAGTGGGGCATGAGCCGGAAGATCTGGCGAAGCTCAGGCAAAAACACCACCAATCACGTGGAAGT  
TAATTTTATAAAAAAATTTACGTCAGAAAGAGATTTTACCCATCCATCAGCTGCTCCATCACCTGGTTCTTGTC  
CTGGAGTCCCTGCTGGGAATGCTCCAGGCTATTAGAGAGTTTCTGAGTCGGCACCCCTGGTGTGACTCTAGTGAT  
CTACGTAGCTCGGCTTTTTTGGCACATGGATCAACAAAATCGGCAAGGTCTCAGGGACCTTGTTAACAGTGGAGT  
AACTATTCAGATTATGAGAGCATCAGAGTATTATCACTGCTGGAGGAATTTTGTCAACTACCCACCTGGGGATGA  
AGCTCACTGGCCACAATACCCACCTCTGTGGATGATGTTGTACGCACTGGAGCTGCACTGCATAATTCTAAGTCT  
TCCACCCTGTTTAAAGATTTCAAGAAGATGGCAAAATCATCTTACATTTTTTCAGACTTCATCTTCAAACTGCCA  
TTACCAAACGATTCCGCCACACATCCTTTTAGCTACAGGGCTGATACATCCTTCTGTGGCTTGGAGATTGAATAGG  
ATGATTCCGTGTGTGTACTGATTCAAGAACAAGCAATGATGACCCACTAAAGAGTGAATGCCATTTAGAATCTAG  
AAATGTTCAAGGTACCCCAAACTCTGTAGCTTAAACCAACAATAAATATGTATTACCTCTGGC

3812/6881  
**FIGURE 3512**

MTSEKGPSTGDPTLRRRIEPWEFDVFYDPRELKKEACLLYEIKWGMSRKIWRSSGKNTTNHVEVNFIIKFTSERD  
FHPSISCSITWFLSWSPCWECSQAIREFLSRHPGVTLVIYVARLFWHMDQQNRQGLRDLVNSGVTIQIMRASEYY  
HCWRNFEVNYPPGDEAHWPQYPPLWMMLYALELHCCIILSLPPCLKISRRWQNHLTFFRLHLQCHYQTIPPHILLA  
TGLIHPSVAWR

3813/6881  
**FIGURE 3513**

CCCGGATGTGGAGAAGCTGGGGAGAAGGCGTGGGAGGAAGATGGACTCGGTGGAGAAGGGGGCCGCCACCTCCGT  
CTCCAACCCGCGGGGGCGACCGTCCCGGGGCCGGCCGCCGAAGCTGCAGCGCAACTCTCGCGGGCGGCCAGGGCCG  
AGGTGTGGAGAAGCCCCCGCACCTGGCAGCCCTAATTCTGGCCCGGGAGGCAGCAAAGGCATCCCCCTGAAGAA  
CATTAAGCACCTGGCGGGGGTCCCGCTCATTGGCTGGGTCCCTGCGTGCGGCCCTGGATTGAGGGGCCTTCCAGAG  
TGTATGGGTTTCGACAGACCATGATGAAATTGAGAATGTGGCCAAACAATTTGGTGCACAAGTTTCATCGAAGAAG  
TTCTGAAGTTTCAAAGACAGCTCTACCTCACTAGATGCCATCATAGAATTTCTTAATTATCATAATGAGGTTGA  
CATTGTAGGAAATATTCAAGCTACTTCTCCATGTTTACATCCTACTGATCTTCAAAAAGTTGCAGAAATGATTTCG  
AGAAGAAGGATATGATTCTGTTTTCTGTTGTGAGACGCCATCAGTTTCGATGGAGTGAAATTCAGAAAGGAGT  
TCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGCTAAACGGCCTCGTTCGACAAGACTGGGATGGAGAATTATA  
TGAAATGGCTCATTTTATTTTGTAAAAGACATTTGATAGAGATGGGTACTTGCAGGGTGGAAAAATGGCATA  
CTATGAAATGCGAGCTGAACATAGTGTGGATATAGATGTGGATATTGATTGGCCTATTGCAGAGCAAAGAGTATT  
AAGATATGGCTATTTTGGCAAAGAGAAGCTTAAGGAAATAAAACTTTTGGTTTGCAATATTGATGGATGTCTCAC  
CAATGGCCACATTTATGTATCAGGAGACCAAAAAGAAATAATATCTTATGATGTAAAAGATGCTATTGGGATAAG  
TTTATTAAAGAAAAGTGGTATTGAGGTGAGGCTAATCTCAGAAAGGGCCTGTTCAAAGCAGACGCTGTCTTCTTT  
AAAAGTGGATTGCAAAATGGAAGTCAGTGTATCAGACAAGCTAGCAGTTGTAGATGAATGGAGAAAAGAAATGGG  
CCTGTGCTGGAAAGAAGTGGCATATCTTGGAAATGAAGTGTCTGATGAAGAGTGCTTGAAGAGAGTGGGCCATAAG  
TGCGCTCCTGCTGATGCCTGTTCTACTGCCCAGAAGGCTGTTGGATACATTTGCAAATGTAATGGTGGCCGTGG  
TGCCATCCGAGAATTTGCAGAGCACATTTGCCTACTAATGGAAAAGGTTAATAATTCATGCCAAAAATAGAAATT  
AGCGTAATATTGAGAAAAAATGATACAGCCTTCTTCAGCCAGTTTGCTTTTATTTTGGATTAAAGTAAATCCAT  
GTTGTAATGTTACAGAGAGTGTGATTGGTTTTGTGATATATATATATTGTGCTCTACTTTTCTTTTACGCAAGA  
TAATTATTTAGAGACTGATTACAGTCTTTCTCAGATTTTAGTAAATGCAAGTAAGAACATCATCAAAGTTCACT  
TTGTATTGTACCTGTAAAAGTGTGTGTTGTGTGCTTTCAAAGATGTTGGGATTTTATTTATCTGGGGACAGTG  
TGTATGGTAAGACATGCCCTTCTATTAATAAAACTACATTTCTC

3814/6881  
**FIGURE 3514**

MDSVEKGAATSVSNPRGRPSRGRPPKLQRNSRGGQGRGVEKPPHLAALILARGGSKGIPLKNIKHLAGVPLIGWV  
LRAALDSGAFQSVWVSTDHDEIENVAKQFQAQVHRRSSEVSKDSSTSLDAIIIEFLNYHNEVDIVGNIQATSPCLH  
PTDLQKVAEMIREEGYDSVFSVVRRHQFRWSEIQKGVREVTEPLNLNPAKRPRRQDWDGELYENGsfYFAKRHLI  
EMGYLQGGKMAYYEMRAEHSVDIDVDIDWPIAEQRVLRYGFGKEKLKEIKLLVCNIDGCLTNGHIYVSGDQKEI  
ISYDVKDAIGISLLKKSGIEVRLISERACSKQTLSSLKLDCKMEVSVSDKLAVVDEWRKEMGLCWKEVAYLGNEV  
SDEECLKRVGLSGAPADACSTAQKAVGYICKCNGGRGAIREFAEHICLLMEKVNNSCQK

3815/6881

**FIGURE 3515**

TATAACATCTCCTGCTAAGCAAAGCCCACTGACTAATTAGTCACCACTACACAAGGAAAAACAGCATTATTTT  
GAGGCTGAATTAATGTTAGTTTTCTCATTTTCTCATCTTCATTCTCTGCTGTTGAAGAAATGTTTCAGTGGCCA  
ACTGATTCTGCTTCTCTCTTGCAGGTTTCCTATCCTGGGAGCAGGAGAGTGTGCCTATTTGAATGACAAAGGTG  
CCAGTAGTGCCAGGCACTACACAGAGAGGAAGTGGATTGTTCCAAATCAGATATACATGTCTAGATGTTACAGC  
AAAGCCCCAACTAATCTTTAGAAGCATATTGGAAGTATACTCCATTTTAAATGAGCAAAGAATTTATTTCTT  
ATACCAACAGGTATATGAAAATATGCTCAATATCACTAATACTGGGAAAATACAAATCAAATCATAGTAAAA  
ATTACCTGTTTTTCATGGTGCTAATATTACCTGTTCTCCCACTGCTAATGACATACCCGAGACTGAGTAATTTATA  
AATAAAAGAGATTTAATTGACTCATAGTTCCACATGGCTGGGGAGGTCTTGCAATCATGACAGAAGGCAAATGGG  
AAGCAAAGTCATGTCTTATGTGGTGGCAGGCAGGGGGACTTGTGCACAGGAACCTCTATTTATACAACCATCAGA  
TATCTTGAGACAAGAACAGTATGGGGCTCCCTGGTGTGATTCCGTCTGCGCGGCTGTTCTCTGGAGCAGCATT  
ATTTATCTTCGTCTGCCTTGTCTCTACCTAAGTGTGTGTCGCCACCCGATGGAAGATTGATGGACATGGACAT  
GAGCCCCCTGAGGCCCCAGAACTATCTTTTCAGTTGTGAACTAAAGGCCGACAAAGATGATCACTTTAAGGTGGA  
TAATGATGAAAATGAGACCAGTTATCTTTAAGAACGGTCAGCTCAGGGGCTGGTGCAAAGGATGAACTGCACATT  
GTTGAAGCAGAGGCCATGAATGACGAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAG  
CCAACGGTTTTCTCTTGGGGGCTTTGAAATAACACCACCAGTGGACTTAAGGTTGAAGTGTGGTTTCAGGGCCAGTG  
CATATTAGTGGACAGCACTTAGTAGCTGTGAAGGAAGGTGCAGAGTCAGAAGATGAAGAAGAGGAGGATGTGAAA  
CTCTTAAGTATATCTGGAAGCAGTCTGCCCCCTGGAGGTGGGCAGAAAAAAGTAAAACCTTGCTGCTGCTGTGAT  
GATGATGATGATGAAGAT  
CGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAAATGGAAGAACTCAAACCATCATCAACACCAAGA  
TCAAAAGGACAAGAATCCTTCAAAAAACAGGAAAAATCTCTTAAACACCAAAAGGATCTAGTTCTGTAGAAGAC  
ATTAAAGCAAAAATGCAAGCAAGTATAGAAAAACGTGGTTCTCTTCCCAAAGTGGAAACCAAGTTCATCAATTAT  
GTGAAGAATTTCTTCTGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAGTCTCTTTAAGAA  
AATAGTTTAAACAATTTGTTAAAAATTTCCATCTTATTTTCTGTAAACAGTTGATATCTGGCTGTCCTTTT  
TATAGTGCAGAGTGAGAACTTTCCCTACCATGTTTGATAAATGTTGTCCAGGTTCTATTGCCAAGAATGTGTTGT  
CCAAAATGCCTGTTTGTAGTTTTTAAAGATGGAATCCACCCCTTGCTTGGTTTTAAGTATGTATGGGATGCTATGA  
TAGGACATAGTAGTAGCAGTGGTCAGACATGGAATGGTGGGGAGACAAAAGTATACACGTGAAATAAACTCAG  
TATTTTAATAAAGTAAAAAA

3816/6881  
**FIGURE 3516**

MNDEGSPIKVTLATLKMSVQPTVSLGGFEITPPVDLRLKCGSGPVHISGQHLVAVKEGAESEDEEEEDVKLLSIS  
GKQSAPGGGQKKVKLAAAADDDDDDDDDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQE  
SFKKQEKSPKTPKGSSSVEDIKAKMQASIEKRGS LPKVETKFINYVKNFFWMTDQEAIQDLWQWRKSL

3817/6881  
**FIGURE 3517**

GGCGCCGGGGGACACGTTGGCTGCGTTTTTCGGCGGGCCTCCCGGGTACAAAAATGGCTGTGGCTAGCGATTTCTA  
CCTGCGCTACTACGTAGGGCACAAGGGCAAGTTTGGGCACGAGTTTCTGGAGTTCGAATTTTCGGCCGGACGGAAA  
GCTTAGATATGCCAACACAGCAATTACAAAAATGATGTGATGATCAGAAAAGAGGCTTATGTGCACAAGAGTGT  
AATGGAAGAACTGAAGAGAATTATTGATGACAGTGAAATTACAAAAGAAGATGATGCTTTGTGGCCTCCCCCTGA  
TAGGGTTGGCCGACAGGAGCTTGAAATTGTAATTGGAGATGAGCACATATCTTTTACCACATCAAAAATAGGTTT  
TCTTATTGATGTAAATCAGTCAAAGGATCCTGAAGGCCCTCGAGTATTTTACTATTTGGTACAAGACTTGAAATG  
TTTAGTTTTTTCAGTCTTATTGGATTACACTTCAAGATTAAACCAATTTAAATGTATGTTTTTCAGGCTGTTTGTAT  
ATTTAATTAAGGGATGGGAGGGGTTATTTGTCATTTACAGTATTGGGGTTTTTATGAATGTGAAGCAAAACAAAA  
AAATTTGTATGTAACTGAAAATAAGAAAATACATTAGCAAGCTTAATGGTTATCCTTACTTGAGTCCACATGGG  
TTGGACAGTCCCCACACACATTAAATTCTGTAAATGAAAGCCACCTTTTGTAAAAAATTTGCTCTAATAAAACAT  
ACCAAAATCCTGGTTGCAGAGTAGTTTTTTTGTTTTTTCCAGGAGGCTATGTCTCTAATTCACTTTAGAGATAATAA  
GAAATTGTCTGGTAGATACATCCTGTGACAGAAGATACTTTAGGTGGAACATGTAGCCAGATTCCCATCCATG  
AAAGGCAAGTGTAGATTGTCCCTTATTTTCTTCATACATGATTGGATTTAATTTTGGGGGGCTTATACAAGGTCT  
AGTTTTTTTTTACAGTTATGACAAACCCCTCAGGGATTATTCACATTTAAATATTTTTCAGTTACAAGCAGTGAGG  
TCCTAAAGTGTTACAAGAGTACAGTCTACCCCATGTTAGGCATATCTTTGATTATGTCTTTATTCCTTATTTTAC  
AATGTATTTGGTGTGTAGGGGAGGGGGGAGAACTAAATGAGTTTTTCAGCTTTATAAATTGTTAAACATTTAGACA  
AACATATATGTATGTATGAATGTACATAAATATTTTTAACTCCTATTGACCACGAGTCTCACTTCAGTTTCCCAG  
TTCCCTTCAACCTCTTTCTGATAGATTTCCCTCTTTTCACTTATTTTAGTAACCATGTTCCCTTGTTCCTTTTATTC  
TTCCATCTGAAGCCCCACTCTTAAAAAGTTGCACTGTTCCAGTAGTTATAATCCACTTGCCCTAGGAACAAGTTA  
GCACTGAATTTTGGGTGGAATAATTAGTTTCTGAAGGCTTGCCAGGACCCCTGAGCAGGTAGGCTCTAGAGTCGG  
GCAGTCCAATAACTTTTTTGAATAATGGAACGTCCTATGTGCAGTCCAATAGGGTAGCAACTGGCCAAATGAG  
GCCTACTGATTACTTGAGGTGTGCCTTGTATAACTGAATTTATGGTGCTATTTAAACAATTTTTTTCTAACGTGA  
AAAGGATAAAACATAAAAACTCTTGAGAACTATAAAGTGAACACCTATATGCCTACCCCTACCTAGATTCTATA  
CTTAACATCTTTTTTACTGTAAATATCTCTATTATAATAAATCTTGGTTTTTCACTTAACTGGTGTAAATGGTGCC  
AATAAACTACTTTTTTTGTAGTGCTATTTAAATTTGATTAAATTTAGATAGCCACGTGTCTAGCGGCTACCGTTT  
GGACAGTATAGCTCTAGAGCATGGCTTGGTAACCTGTTTGCCATGGAGCACTAGATGGTCCTTTTCACTCCTCAA  
AATGCATGCCCATTTGCCCTTCAGGTTTGCCATGGAAAGTCAAATGATTTCCACTTCATTATGCAAGTACGCTATCA  
TCTTCAGGTCTTTTGTATGTAAAATGTTTCTGTTCCAGTTGTAGACCTTGATGATTGTGCAGTATGAAATCGTAT  
TGTAATTTTCTTGCAATTTAGATGTCAACCTCAGAAACAGGAACAATCGTCTTTTGAACCTCCAGTAGGCCACAG  
TTGTTGGTTGTTCTCATAAACAGGTTGTGGCTCCTGTTGAATAAGATGATCCATTAAAACTGAACAAGGTTGAG  
GAGAAATAGTGCTTACGTTGAAAAATCTTTAAGTCTTTGTCCCCGTTCTCTAACTTCCTTACGTTTTTCGTTTATT  
TAGCTCCATCCCCACTATCTACTAGAATTTCTCATATTTAAACCAAGATGGGAGACTAGGTCAATTAGGAAAATAT  
TACCGTCTACAATTTTCTTATACTTTGATCTGTCTTTTATTGATTGTAAGTTGCTGATGGACAGTGATCATTAG  
AAACTGAATTTTGTATAATACTAGTTTTATATGAACTAGATATTTATTGCGCTCAGGTTATGTTTCTTTTACCT  
CCTTCCTTAATAAAGAGACCACTTGAAAT



3818/6881  
**FIGURE 3518**

MAVASDFYLRYVVGHKGFGEFLEFEFRPDGKLRYANNSNYKNDVMIRKEAYVHKSVMEELKRIIDDSEITKD  
DALWPPPDVRVGRQELEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLRVFYLVQDLKCLVFSLIGLHFKIKPI

3819/6881  
**FIGURE 3519**

AAAACTTGTGCGGGGCCATTTTTGGGGCAGTAAGATCGAGCGAGGAGCCCAAGAGAGAGCGCGCAGCACGAAGC  
TCGAGCCGCTCCGCGCGCGACCCACCTCGGCCGCGCGCCTGCGCCGCGAGATCCGCCCCGGCCTCCCCGA  
GAGCGAGCCCCGGCCGCGCGACACCAGCCGCGCTAACCGCCGACCAACCGCCACCGAGGCGCCTGAGCGAGAG  
CAGAGGAGGAGGAGGCATGAGTGAGGCGGGCGAGGCCACCACCACCACCACCCTCCCGCAGGCTCCGAC  
GGAGGCGGCCCGCGGGCTCCCCAGGACCCCGCGCCCAAGAGCCCGGTGGGCAGCGGTGCGCCCCAGGCCGCGGC  
CCCGGCGCCCGCGCCACGTCGCGAGGAAACCCCGGTGGGGACGCGGCCCCCGCAGCCACGGGCACCGCGGCCG  
CGCCTCTTTAGCCACCGCCGCGCGCAGCGAAGACGCGGAGAAAAAGTTCTCGCCACCAAAGTCCTTGCGACTGT  
CAAATGGTTCAACGTCAGAAATGGATATGGATTATAAATCGAAATGACACCAAAGAAGATGTATTTGTACATCA  
GACTGCCATCAAGAAGAATAACCCACGGAAATATCTGCGCAGTGTAGGAGATGGAGAACTGTAGAGTTTGATGT  
GGTTGAAGGAGAGAAGGGTGCAGAAGCTGCCAATGTGACTGGCCCGGATGGAGTTCCTGTGGAAGGGAGTCGTTA  
CGCTGCAGATCGGCGCCGTTACAGACGTGGCTACTATGGAAGGCGCCGTGGCCCTCCCCGGAATGCTGGTGAGAT  
TGGAGAGATGAAGGATGGAGTCCCAGAGGGAGCACAACTTCAGGGACCGGTTTCATCGAAATCCAACCTACCGCCC  
AAGGTACCGTAGCAGGGGACCTCCTCGCCCACGACCTGCCCCAGCAGTTGGAGAGGCTGAAGATAAAGAAAATCA  
GCAAGCCACCACTGGTCCAAACCAGCCGTCTGTTTCGCCGTGGATACCGGCGTCCCTACAATTACCGGCGTCGCCC  
GCGTCTCTTAACGCTCCTTCACAAGATGGCAAAGAGGCCAAGGCAGGTGAAGCACCAACTGAGAACCCTGCTCC  
ACCCACCCAGCAGAGCAGTGCTGAGTAACACCAGGCTCCTCAGGCACCTTCACCATCGGCAGGTGACCTAAAGAA  
TTAATGACCATTTCAGAAATAAAGCAAAAAGCAGGCCACAACCTTAACCAACACCAAAGAAACATCCAAGCAATAA  
AGTGGAAGACTAACCAAGATTTGGACATTGGAATGTTTACTGTTATTCTTTAAGAAACAACCTACAAAAGAAAAT  
GTCAACAAATTTTCCAGCAAGCTGAGAACCTGGGAATTCCTGCACGGAAGACAAGAGAGTAGCCTCTCCAGTTT  
CAGCAACCGCTAGGTTTCTATTTTTTTCCTGGTTTTTACTGTTTTGGTAATATATATATTGAAACAAGAAATAT  
TAATACCACATGGGGAGAACCCCAACCAAAGAAATCTGAAATATATAGTAAATGCTTTTTTTCCGTTTTTGTTC  
ATTTTGGATGCTGGTGCTAAACCTCCAAGTGTCATGATTTAAAAAATAAATTTATGTCCTTCTTATTTATT  
TCTAGGATGAGGGGAGGATAACATTTTGCTTCTTATGTGACTCTCTTTGAAAATGTGCAGTAAGAAATTCCTC  
AAAAATAAAATTTTACCCTTCAGAGG

3820/6881

**FIGURE 3520**

CAGAGCCTCCTTCAAGATGCTGCTGGTCCTGCTCTCAGTGGTCCTTCTGGCTCTGAGCTCAGCTCAGAGCACAGA  
TAATGATGTGAACATATGAAGACTTTACTTTCACCATACCAGATGTAGAGGACTCAAGTCAGAGACCAGATCAGGG  
ACCCAGAGACCTCCTCCTGAAGGACTCCTACCTAGACCCCTGGTGATAGTGGTAACCAAGATGATGGTCCTCA  
GCAGAGACCACCAAACCAGGAGGCCATCACCGCCATCCTCCCCACCTCCTTTCAAATCAGCAACGACCACC  
CCAACGAGGACACCGTCAACTCTCTCTACCCCGATTTCCTTCTGTGTCAGCCTGCAGGAAGCATCATCATTCTCCG  
GAGGGACAGACCAGCAAGACATCCCCAGGAGCAACCCTCTGGTTAATCTAGAATTCAGTGGCAGAAAATAAATAA  
GAAGATAACTTCCTTCAGAAAGCCATGACATTGAAATAATGTGGTCATAACTCTTTC

3821/6881  
**FIGURE 3521**

MLLVLLSVVLLALSSAQSTDNDVNYEDFTFTIPDVEDSSQRPDQGPQRPPPEGLLPRPPGDSGNQDDGPPQRPPK  
PGGHHRHPPPPPFQNRPPQRGHRQLSLPRFPSVSLQEASSFFRRDRPARHPQEQLW

3822/6881

**FIGURE 3522**

GGGGGGGGGAGCACAAGTTGGGAGTGACACCAGAGCCTCCTGCAAGATGCTTCTGATTCTGCTGTCAGTGGCCC  
TGCTGGCCTTCAGCTCAGCTCAGGATTTAAATGAAGATGTCAGCCAGGAAGATGTTCCCTCGTAATATCAGATG  
GAGGAGACTCTGAGCAGTTCATAGATGAGGAGCGTCAGGGACCACCTTTGGGAGGACAGCAATCTCAACCCTCTG  
CTGGTGATGGGAACCAGGATGATGGCCCTCAGCAGGGACCACCCCAACAAGGAGGCCAGCAGCAACAAGGTCCAC  
CACCTCCTCAGGGAAGCCACAAGGACCACCCCAACAGGGAGGCCATCCCCCTCCTCCTCAAGGAAGGCCACAAG  
GACCACCCCAACAGGGAGGCCATCCCCGTCTCCTCAGGAAGGCCACAAGGACCACCCCAACAGGGAGGCCATC  
AGCAAGGTCTCCCCACCTCCTCTGGAAAGCCCCAGGGACCACCTCCCCAAGGGGGCCGCCACAAGGACCTC  
CACAGGGGCAGTCTCCTCAGTAATCCAGGATTCAATGACAGGAAGTGAATAAGAAGATAACAGTGTTCAAATGC  
CGTGAAACATGGCATCATGCTCTAACTTCAGTATACCAATAAAACAATCAGCTTGCAATTTC

3823/6881

**FIGURE 3523**

MLLILLSVALLAFSSAQDLNEDVSQEDVPLVISDGGDSEQFIDEERQGPPLGGQSQPSAGDGNQDDGPQQGPPQ  
QGGQQQQGPPPPQGKPPQGGHPPPPQGRPPQGGHPRPPRGRPPQGGHQQGPPPPPPGKPPQ  
PQGRPPQGGQSPQ

3824/6881  
**FIGURE 3524**

TGCAGGGGGGGGAAAAGTTGGGAGTGACACCAGAGCCTTCTGCAAGATGCTTCTGATTCTGCTGTCAGTGGCCC  
TGCTGGCCTTCAGCTCAGCTCAGGACTTAGATGAAGATGTCAGCCAAGAAGACGTTCCCTTGGTAATATCAGATG  
GAGGAGACTCTGAGCAGTTCATAGATGAGGAGCGTCAGGGACCACCTTTGGGAGGACAGCAATCTCAACCCCTCTG  
CTGGTGATGGGAACCAGAATGATGGCCCTCAGCAGGGACCACCCAACAAGGAGGCCAGCAGCAACAAGGTCCAC  
CACCTCCTCAGGGAAAGCCACAAGGACCACCCAACAGGGAGGCCATCCCCCTCCTCCTCAAGGAAGGCCACAAG  
GACCACCCAACAGGGAGGCCATCCCCGTCTCCTCGAGGAAGGCCACAAGGACCACCCAACAGGGAGGCCATC  
AGCAAGGTCTCCCCACCTCCTCTGGAAAGCCCCAGGGACCACCTCCCCAAGGGGGCCGCCACAAGGACCTC  
CACAGGGGCAGTCTCCTCAGTAATCTAGGATTCAATGACAGGAAGTGAATAAGAAGATGACAGTGTTCAAATGC  
CTTGAAACATAATGTGATCATGCTCTAACTTCAATATACCAATAAAATAATCAGCTTGC

3825/6881  
**FIGURE 3525**

MLLILLSVALLAFSSAQDLDEDVSQEDVPLVISDGGDSEQFIDEERQGPPLGGQQSQPSAGDGNQNDGPPQGGPPQ  
QGGQQQQGPPPPQGGKPPQGGHPPPPQGRPPQGGHPPPPRGRPPQGGHQQGPPPPPPGKPPQGGP  
PQGGRPQGGPQGGSPQ



3826/6881  
**FIGURE 3526**

CCTCTAGCCCTCCCTGCGTTTAGATTTCAGTTGCACCTTTTATTATTTTAACTCTTCTCCTTAGGACACGCAGCCC  
CCAATTTGTCCCTCCGCCTGGGCGGCCCTGGTCCCGCGGCCAGCATGGGAGAGCGAGGGACCTGCCC GCGGCC  
CGCCGGCGTGTGCAAGGAGGTCCAGCCGCCGCGCCGCTACCCGGAGTCTGAGGACGGGTGTCCAGGGACGGAGA  
GGCAGGTGAGAGGGAGGTGGCTAAGCTGGCTATGGTGACAGGACGATGTTGGCCAGAAAGAGTATCATCCCGGAG  
GAGTATGTGCTGGCGCGCATCGCCGCAGAGAACCTGCGCAAGCCGCGCATCCGAGACCGCCTCCCCAAAGCCGCG  
TTCATCGCCAAGAGCGGGGCCCTGCAACCTGGCGCATAAGAACATCCGTGAGCAAGGACGCTTTCTACAGGACATC  
TTCACCACCTTGGTGGACCTGAAATGGCGCCACACGCTGGTCATCTTTACCATGTCCTTCTCTGCAGCTGGCTG  
CTCTTCGCTATCATGTGGTGGCTGGTGGCCTTTGCCCATGGGGACATCTATGCTTACATGGAGAAAAGTGAATG  
GAGAAAAGTGGTTTGGAGTCCACTGTGTGTGTGACTAATGTCAGGTCTTTCACTTCTGCTTTTCTCTTCTCCATT  
GAAGTTCAAGTTACCATTGGGTTTGGAGGGAGGATGATGACAGAGGAATGCCCTTTGGCCATCACGGTTTTGATT  
CTCCAGAAATATTGTGGGTTTGATCATCAATGCAGTCATGTTAGGCTGCATTTTCATGAAAACAGCTCAGGCTCAC  
AGAAGGGCAGAACTTTGATTTTCAGCCGCCATGCTGTGATTGCCGTCCGAAATGGCAAGCTGTGCTTCATGTTT  
CGAGTGGGTGACCTGAGGAAAAGCATGATCATTAGTGCCTCTGTGCGCATCCAGGTGGTCAAGAAAACAACACTACA  
CCTGAAGGGGAGGTGGTTTCTATTACCAACTGGACATTCCTGTTGATAACCCAATCGAGAGCAATAACATTTTT  
CTGGTGGCCCTTTGATCATCTGCCACGTGATTGACAAGCGCAGTCCCCTGTATGACATCTCAGCAACTGACCTG  
GCCAACCAAGACTTGGAGGTATAGTTATTCTGGAAGGAGTGGTTGAACTACTGGCATCACCACACAAGCACGA  
ACCTCCTACATTGCTGAGGAGATCCAATGGGGCCACCGCTTTGTGTCCATTGTGACTGAGGAAGAAGGAGTGTAT  
TCTGTGGATTACTCAAATTTGGCAACACTGTTAAAGTAGCTGCTCCACGGTGCAGTGCCCGAGAGCTGGATGAG  
AAACCTTCCATCCTTATTTCAGACCCTCCAAAAGAGTGAAGTGTCTCATCAAATTTCTCTGAGGAAGCGCAACTCC  
ATGAGAAGAAACAATTCCATGAGGAGGAACAATTCTATCCGAAGGAACAATTCTTCCCTCATGGTACCAAAGGTG  
CAATTTATGACTCCAGAAGGAAATCAAAACACATCGGAATCATGACAGCAAGATAACCCCAAGACAGTCTTTTAT  
CAAGTTTTGACGGTTTATGCTGGGCACTGCCAGACTGAACCAGAGCTGGAACACAATAATGTGTCTTCTACATT  
TTATTACACTAAATGATATTCAATTCAAGCAACAGCACTTTCTGTAGTAATAAAAAGTAACACACCAAGTGGAG  
GATTCATGGCTTATGCTTGTTT

3827/6881  
**FIGURE 3527**

MLARKSIIP E EYVLARIAAENLRKPRIRDRLPKARFIAKSGACNLAHKNIREQGRFLQDIFTTLVDLKWRHTLVI  
FTMSFLCSWLLFAIMWWLVAFAGDIYAYMEKSGMEKSGLESTVCVTNVRSTSAFLFSIEVQVTIGFGGRMMTE  
ECPLAITVLILQNIVGLIINAVMLGCIFMKTAQAHRRAETLIFSRHAVIAVRNGKLCFMFRVGD LRKSMIISASV  
RIQVVKKTTTPEGEVVP I HQLDIPVDNPIESNNIFLVAPLIICHVIDKRSPLYDISATDLANQDLEVIVILEGVV  
ETTGITTQARTSYIAEEIQWGHREVSIVTEEEGVYSVDYSKFGNTVKVAAPRCSARELDEKPSILIQTLQKSELS  
HQNSLRKRNSMRRNNSMRRNNSIRRNNSLMVPKVQFMTPEGNQNTSES

3828/6881  
**FIGURE 3528**

GCCGGAGGAGACGCACGCAGCTGACTTTGTCTTCTCCGCACGACTGTTACAGAGGTCTCCAGAGCCTTCTCTCTC  
CTGTGCAAAATGGCAACTCTTAAGGAAAACTCATTGCACCAGTTGCGGAAGAAGAGGCAACAGTTCCAAACAAT  
AAGATCACTGTAGTGGGTGTTGGACAAGTTGGTATGGCGTGTGCTATCAGCATTCTGGGAAAGTCTCTGGCTGAT  
GAACTTGCTCTTGTGGATGTTTTGGAAGATAAGCTTAAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTT  
CTTCAGACACCTAAAATTGTGGCAGATAAAGATTATTCTGTGACTGCCAATTCTAAGATTGTAGTGGTAACTGCA  
GGAGTCCGTCAGCAAGAAGGGGAGAGTCGGCTCAATCTGGTGCAGAGAAATGTTAATGTCTTCAAATTCATTATT  
CCTCAGATCGTCAAGTACAGTCCTGATTGCATCATAATTGTGGTTTTCCAACCCAGTGGACATTCTTACGTATGTT  
ACCTGGAAACTAAGTGGATTACCCAAACACCGCGTGATTGGAAGTGGATGTAATCTGGATTCTGCTAGATTTTCGC  
TACCTTATGGCTGAAAACTTGGCATTTCATCCAGCAGCTGCCATGGATGGATTTTGGGGGAACATGGCGACTCA  
AGTGTGGCTGTGTGGAGTGGTGTGAATGTGGCAGGTGTTTCTCTCCAGGAATTGAATCCAGAAATGGGAAGTGC  
AATGATAGTGAATAATTGGAAGGAAGTGCATAAGATGGTGGTTGAAAGTGCCTATGAAGTCATCAAGCTAAAAGGA  
TATACCAACTGGGCTATTGGATTAAGTGTGGCTGATCTTATTGAATCCATGTTGAAAAATCTATCCAGGATTCAT  
CCCGTGTCAACAATGGTAAAGGGGATGTATGGCATTGAGAATGAAGTCTTCCTGAGCCTTCCATGTATCCTCAAT  
GCCCAGGGAATTAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGCTCAAGAAAAGTGCAGAT  
ACCTGTGGGACATCCAGAAGGACCTAAAAGACCTGTGACTAGTGAGCTCTAGGCTGTAGAAATTTAAAACTAC  
AATGTGATTAACCTCAGACCTTTAGTTTTTCATCCATGTACATGGATCACAGTTTGCTTTGATCTTCTTCAATATGT  
GAATTTGGGCTCACAGAATCAAAGCCTATGCTTGGTTTAATGCTTGCAATCTGAGCTCTTGAACAAATAAAATTA  
ACTATTGTAGTGTG

3829/6881  
**FIGURE 3529**

ATTCAGTAAACCACTGGGAGTCCGGCAGCATGGAGGCAGCGCGCCCTCCCCGACGGCAGGGAAGTTCGTGGTGG  
TCGGCGGCGGCATCGCGGGCGTCACTTGTGCGGAGCAGTTGGCTACTCACTTTCCATCGGAAGATATTCTCTTGG  
TAACAGCTTCTCTGTATTATTAAAGCAGTTACAAATTTCAAGCAGATTCTCTAAAATATTGGAAGAATTCGATGTTG  
AAGAACAATCAAGTACCATGTTAGGAAAACGCTTTCCCAACATTAAAGTTATAGAATCTGGCGTAAAGCAACTGA  
AGAGTGAAGAACACTGCATTGTAACAGAAGATGGCAATCAGCACGTATATAAGAACTCTGTCTGTGTCTGGAG  
CTAAACCAAAGTTGATATGTGAAGGAAATCCTTATGTATTAGGAATCCGTGATACAGACAGTGCTCAGGAATTC  
AGAAACAGCTTACTAAAGCTAAAAGAATAATGATCATAGGGAACGGTGGTATTGCACTTGAGTTAGTGTATGAAA  
TTGAAGGCTGTGAAGTGATTGGGCCATTAAAGATAAAGCTATAGGGAATACTTTCTTCGATGCAGGAGCAGCTG  
AATTCTTGACTTCAAAGCTCATTGCTGAAAAATCAGAGGCTAAAAATGCACATAAAAGAACCAGATATACAACTG  
AAGGAAGGAAAAAGGAAGCTAGAAGCAAATCTAAAGCAGATAATGTAGGAAGTGATTGGGACCAGATTGGCATG  
AAGGCTTGAATCTTAAAGGAACAAAAGAGTTTTCTCATAAGATTACCTTGAAACTATGTGTGAAGTAAAGAAAA  
TCTACCTTCAGGATGAGTTTAGAATTTTGAAGAAAAAGTCCTTCACTTTTCCAAGAGACCATAAGTCAGTTACAG  
CTGATACAGAGATGTGGCCTGTCTATGTGGAATTGACCAATGAAAAGATATATGGCTGCGATTTTCATTGTCAGTG  
CTACAGGAGTTACACCAAATGTAGAACCCTTTTCTCCATGGTAACAGTTTTGATCTAGGAGAAGATGGTGGCCTGA  
AAGTGGATGATCATATGCACACATCCCTTCCTGATATCTATGCTGCCGGTGACATCTGTACTACATCCTGGCAGC  
TGAGCCCAGTCTGGCAGCAGATGAGGCTGTGGACCCAGGCTAGACAGATGGGATGGTATGCAGCAAAGTGCATGG  
CTGCAGCGAGTTCAGGAGACTCTATTGACATGGATTTCAGCTTTGAACTGTTTGCTCATGTGACAAAAATTTTTTA  
ACTATAAGGTTGTACTGCTGGGAAAAATACAATGCACAGGGCTTAGGTTTCAGATCATGAATTAATGCTGAGATGTA  
CCAAAGGACGAGGAATACATCAAAGTCGTATGCAAAATGGACGAATGATGGGAGCTGTCTTAATTGGTGAAAACC  
GATTTAGAAGAAACATTTGAAAACCTAATCTTAAACCAAATGAATCTTTCATCATATGGAGAAGATCTGCTAGAT  
CCAAATATTGATATAGAAGATTATTTGACTAAAAATGGAATTTCTTCAGGAATCATATAAAGTTCCAAATGACA  
CCAGAAAAATCACAAGTCAATAAAATGAATGACTGTATTGAGTTAATGATGACCACACTGAAAATTACAGAAGTG  
ATAATGATATTCGTGGAAAAATATAAAAAACATAAATTCTAAGTTTGAAATCAGTTCAAAGTTTATTTATAGATAT  
ATCTTTCCAACACAACACTGACCGCTTAGATAAAAAATCTTAAGTTATTTATTTCTGTGTTTTAAACATAAATATG  
TTTACTTTGTGATTAGCTTTGGAGCAAATTTAGGTAAGTTATCTACTTAGCCAAATGTAATCTAGTAGACTAGAA  
CCATTCTTTGTGAAATGTCAAATATGGCTATGGTTTCAGGAACCTTAAAAATCGGTTGTATTTTACTTTAAATAG  
AGATGTAGCAATATCTCGTTTGCTAATATTTATATTGATGACTTACTCCTTTTTTGTGTAATTGTACTTCTGGTT  
TTATAACCTGAAATCATCTACAAGCTTGTCCTCAACTCTAGCCACGGGTCTAATGCAGCCAGAACAGCTTTGAAT  
GCAGCCCAACACAAATCTGTAACTTTCTTAAACATGAGATTTTTCTTGCAATTTTTTTTTTTTTTAAAGTCTATC  
AGCTATCGTCAGTGTAGCATATTTATGTGCGGCCCAAGACAATCTTCTTCCAATGTGGCTCAGGGAAGCCAA  
AAGATTGGACATCCCTGATCTACATATTTAACTTAAAGTATCACTCAGTGAACCTCTGTCAGTATAATATTGCTT  
TCAAAAAGATGGTTATGTCAAAAGAAAAATATAGCTAAGTATATAAAGGCATAAAAACTTAAGACAATTACAT  
GAACTTATTCTCAAAATATTTTACATTTTTTGTAACTTTCTTAAACATGAGATTTTCTTGCAATTTTTTTTTT  
AAGCTATCAGCTATCATCAGTGTAGCATATTTATGTGCGGCCCAAGACAATCTTCTTCCAATGTGGCTCAG  
GGAAGCCAAAAGATTGGACATCCTTGATCTACATATTTAACTTAAAGTATCACTCAGTGAATTTCTTTAAAAAC  
TATTGTCTAACTACAAAAATAATGGCATATACATGCATAAACCATCTTAAATTAGAAAAATTAGTAACAGTCATA  
TCAGGCATCATCGATTTTTCTTTCTTAGCTCCTGTATTCTTAGAACCAGATTGCTGAAGCATGTTTGCAGCCTT  
CTTCTGGAAGTTGCCTGAATTTTTTCCTCCATCTTTTATCACCTTGTTTCAAGATGACAAGTTTGAGACGATTC  
AGCCTACAAAAA

3830/6881

**FIGURE 3530**

MEAA RPPPTAGKFVVVG GGIAGVTCAEQLATHFPSEDILLVTASPVIKAVTNFKQISKILEEFDVEEQSSTMLGK.  
RFPNIKVIESGVKQLKSEEHCIVTEDGNQH VYKKLCLCAGAKPKLICEGNPYVLGIRD TDSAQEFQKQLTKAKRI  
MIIGNGGIALELVYEIEGCEVIWAIKDKAIGN TFFDAGAAEFLTSKLIAEKSEAKIAHKRTRYTTEGRKK EARSK  
SKADNVGSALGPDWHEGLNLKGTKEFSHKIHLETMCEVKKIYLQDEFRI LKKKSFTFPRDHKSVTADTEMWPVYV  
ELTNEKIYGCDFIVSATGVTPNVEPFLHGNSFDLGEDGGLKVDDHMHTSLPDIYAAGDICTTSWQLSPVWQQMRL  
WTQARQMGWYAAKCM AAASSGDSIDMDFS FEFHVTKFFNYKVLLGKYNAQGLGSDHELMRLCTKGRGIHQSR  
HAKWTNDGSCLNW

3831/6881  
**FIGURE 3531**

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTGCCTCGTCAGCCTCCTTGCTCGCCGAGCCGCCCTCCGCCGCG  
CGCCTCCTCCGCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTTATCCCC  
TGCATCGCGTACCCGGCGTGCCCCACCATGTCAGACGCAGCCGTAGACACCAGCTCCGAAATCACCACCGAGGAC  
TTAAAGGAGAAGAAGGAAGTTGTGGAAGAGGCGGAAAATGGAAGAGACGCCCCTGCTAACAGGAATGCTAATGAG  
GAAAATGGGGAGCCGGAGGCTGACAACGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAA  
GAAGGTGATGGTGAGGAAGAGGACGGAGATGAAGATGAGGGAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAA  
GATGATGAGGATGACACGCGCTCTCCACCACCAACCAAAACCATGAGAATTGCAACAGGGGAGGGAAAAAGAA  
CCAAAACCTTCCAAGGCCCTGCTTTTTTTTTCTTAAAAGTACTTTAAAAGGAACTTGTATTTTTTATTACATT  
TTATATTTTTGTACATATTGTTAGGGTCGGCCATTTTAAATGATCTCGGATGACCAAACAGCCTTCGGAGCGTT  
CTCTGTCTACTTCTCACTTTACTTG

3832/6881

**FIGURE 3532**

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTGCCTCGTCAGCCTCCTTGCTCGCCGCGAGCCGCTCCGCGGCG  
CGCCTCCTCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTTTATCCCC  
TGCATCGCGTACCGGCGTGCCCCACCATGTGACACGCGAGCCGTAGACACCAGCTCCGAAATCACCACCGAGGAC  
TTAAAGGAGAAGAAGGAAGTTGTGGAAGAGGCGGAAAAATGGAAGAGACGCCCTGCTAACAGGAATGCTAATGAG  
GAAAATGGGGAGCCGGAGGCTGACAACGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAA  
GAAGGTGATGGTGAGGAAGAGGACGGAGATGAAGATGAGGGAGCTGAGTCAGCTACGGGCAAGCGGGCAGCTGAA  
GATGATGAGGATGACGATGTGATACCCAGAAGCAGAAGACCGACGAGGATGACCAGACAGCAAAAAAGGAAAAAG  
TTAAACTAAAAAAAAGGCCGCCGTGACCTATTCGCCCTCCACTTCCCGTCTCAGAATCTAAACGTGGTCACCT  
TCGAGTAGAGGGGCCGCCGCCGCCACCGTGGGCAGTGCCACCCGCGAGATGACACGCGCTCTCCACCACCCAACCC  
AAACCATGAGAATTTGCAACAGGGGAGGAAAAAGAACCAAACTTCCAAGGCCCTGCTTTTTTTTTCTTAAAAG  
TACTTTAAAAGGAACTTGTATTTTTTATTTACATTTTATATTTTGTACATATTGTTAGGGTCGGCCATTTTT  
AATGATCTCGGATGACCAAACAGCCTTCGGAGCGTTCTCTGTCTACTTCTCACTTTACTTGTGGTGTGGCCAT  
GTTCAATTATAATCTCAAAGGAGAAAAAAAACCTTGTA AAAAATGCAAAAATGACAACAGAAAAACCATCTTATTC  
CGAGCATTCCAGTAACTTTTTTGTGTATGTACTTAGCTGTACTATAAGTAGTTGGTTTGTATGAGATGGTTAAAA  
AGGCCAAAGATAAAAGGTTTCTTTTTTTTCCTTGTCTGTGAAGTTGCTGTTATTTTTTTTTTGCCCTGTTTGATG  
TATGTGTGAAACAATGTTGTCCAACAATAAACAGGAATTTATTTTGCTGAGCTGTTCT

3833/6881

## FIGURE 3533A

AGTAGGGAGGTGGGCAGGAGCCAGTGATGACGGAATGGCAATCACATTGACCTCTGATCTGTTTATTTCTCTCT  
CCTTGACGTCTCCATATAAATGTTACACGGGCATCCCCACACTCGGATACGCACCCACAGTGGCTGATTCTGGGGG  
TAACCGTGTCATTGTCTTGCAACACTGGCACCTCTGCCCTGCACCCCGGGAGTGAGCAGTGAGTGAGGCTCGGGT  
CTGGGCGCTGGCTCCGAATCTTCGGGCTGGGAGAGACTCCACCATCTGGGGCGGCCTGGGGGAGCAGCCTTAGT  
GTCTTCCTGCTGATGCAATCCGCTAGGTGCGAGTCTCCGCCGCGAGAGGGCCGGTCTGCAATCCAGCCCGCCAC  
GTGTACTCGCCCGCCCTCGGGCACTGCCCCAGGTCTTGCTGCAGCCGGGACCGCGCTCTGCAGCCGAGACCCG  
GTCCACACGGCCAGGGGCTACGACCCCTGGGATCTGCCCTCCGCTCAGCTCGAGCTTCCCTCGTGGCCGACGGAA  
CAATGAAGGATTGCAGTAACGGATGCTCCGCAGAGTGTACCGGAGAAGGAGGATCAAAAGAGGTGGTGGGGACTT  
TTAAGGCTAAAGACCTAATAGTCACACCAGCTACCATTTAAAGGAAAAACCAGACCCCAATAATCTGGTTTTTG  
GAACTGTGTTACGGATCATATGCTGACGGTGGAGTGGTCTCAGAGTTTGGATGGGAGAAACCTCATATCAAGC  
CTCTTCAGAACCTGTCATTGCACCCTGGCTCATCAGCTTTGCACTATGCAGTGGAATTATTGAAGGATTGAAGG  
CATTTTCGAGGAGTAGATAATAAAATTCGACTGTTTCAGCCAAACCTCAACATGGATAGAATGTATCGCTCTGCTG  
TGAGGGCAACTCTGCCGGTATTTGACAAAGAAGAGCTCTTAGAGTGTATTCAACAGCTTGTGAAATTGGATCAAG  
AATGGGTCCCATTCAACATCTGCTAGTCTGTATATTCTGCTTACATTCAATTGGAAGTGAAGCTTCTCTTGGAG  
TCAAGAAGCCTACCAAAGCCCTGCTCTTTGTACTCTTGAGCCAGTGGGACCTTATTTTTCAAGTGAACCTTTA  
ATCCAGTGTCCCTGTGGGCCAATCCCAAGTATGTAAGAGCCTGGAAAGGTGGAACCTGGGGACTGCAAGATGGGAG  
GGAATTACGGCTCATCTCTTTTTGCCCAATGTGAAGCAGTAGATAATGGGTGTCAGCAGGTCTGTGGCTCTATG  
GAGAGGACCATCAGATCACTGAAGTGGGAACATGAATCTTTTTCTTTACTGGATAAATGAAGATGGAGAAGAAG  
AACTGGCAACTCCTCCACTAGATGGCATCATTCTCCAGAGTGACAAGGCGGTGCATTCTGGACCTGGCACATC  
AGTGGGGTGAATTTAAGGTGTGAGAGAGATACCTCACCATGGATGACTTGACAACAGCCCTGGAGGGGAACAGAG  
TGAGAGAGATGTTTGCTCTGGTACAGCCTGTGTTGTTTGGCCAGTTTCTGATATACTGTACAAAGGCGAGACAA  
TACACATTCCAACATAGGAGAATGGTCTAAGCTGGCAAGCCGCATCTTGAGCAAATTAACATGATATCCAGTATG  
GAAGAGAAGAGAGCGACTGGACAATTGTCTATCTGAAATGGAAAATAGAGGATACAATGGAAAATAGAGGATAC  
CAACTGTATGCTACTGGGACAGACTGTTGCATTTGAATTGTGATAGATTTCTTTGGCTACCTGTGCATAATGTAG  
TTTGTAGTATCAATGTGTTACAAGAGTGATTGTTTCTTCATGCCAGAGAAAATGAATTGCAATCATCAAATGGTG  
TTTCATAACTTGGTAGTAGTAACCTTACCTTACCTAGAAAAACATTAATGTAAGCCATATAACATGGGATT  
TTCTCAATGATTTTAGTGCCCTCCTTTTGTACTTCACTCAGATACTAAATAGTAGTTTATTCTTTAATATAAGTT  
ACATTCTGCTCCTCAACAAATGCAATTTTTGTGTGTGTTTGAAAGCTAATTTGAGAAAATTCATAGGTTACA  
TTTCTGTCAGCCTATCTTTATCCACAGAAAGTGTTTTCTTTTTTAAATCAAGACTTTTAAACTGGATTTCTCT  
CCCATCACTGTTTTTTGAAGGTCCCTCCAAGTCCGTGTTAAGGTAAATATCTGTTTTCTTCCIGATGTCACAGCCT  
GAGCATACTCTGTGCATTAGGAAGACCTGAGTGCATTTCCACCATTTGCTCTTCCACATTATGTTGTAGCTGGC  
TGCTGTGACGGGACTACAAGACTGAGGGTCTTGTGCCTTATAGATCTTTGTATCCCCATGGCTGACATATAGT  
AGGTACTCAGTAAATGGTTTTATAATGAATCAGTGAACATTTGCTTCTATAGAAGTGTACCTTCTTGTCTTCTA  
TATTATGAAACCTCTTTATTAGAATTTGTGATTGATTCTGACAGTGTATAGATTTACCTTATATTGTCTTTATT  
TCCATGAGCTACTAAGTCATTAGAGATACTCTGAAGCATAGTTAGTTTAGGAAATCACTTCATATTGATTGTATT  
AGAATTATCTTGAATTGAAGATATATCCCTAGAGCAGGGGACCCCAACCCAGGCCATGGGCCACACAGCAGG  
AAGAGGTGAGTGGTGGGCCATTGAGGAGCTTCATCTGTATTTATGGCTACTTCCCATCACTCGAATTACCACCTG  
AACTCCACCTCTTGTGACGTCAGTGGCAGCATTAGATTCTCATAGGAGCACAAATCCTATTGTGAACCTCTGCATG  
CAAGGGATCTAGGCTATGCGCTCCTTATGAGAATCTAATGCTTGATGACCTGAGGTGTAACAGTTTCATCCTGAA  
ACCAACCTTCACCTGCACTGTGTGGAAAAATGTCTTCCACAAAACCTGGTCCCTGGTGCCAAAAATGTTGGGGA  
CCACTGCTCTAGAGAGAGGTGATGATATCATACCAACCAATGGAAATGACAAATGTTTTATGTCAAGTGTTAAT  
TGCGAGAAATAAATCTTTTTTTTTTTTTTGGTAGAAAACAAAGAGGCATACTCTGATTTTTATACTCTGTTTTT  
GCAGGTGCTCTTTTCTTTGAATGGAGATTTGATGAGCAAGTGGTTAGGATGCAGGGAGAGCTACTATGGGTGATA  
TTTTCTTGTGTTAGGAGCTGTGAGTTAAATTTGATCCTTTGTGGTTTATCTAAGGAAAGTCAAACTTTGACAGA  
AAACATTTTTCTTGGAAAGGTCAACTCTCAGACATTGTATTTGTGGTTTCCCTCAGTCCCTCATAACTTCCTTCTTG  
CTGAACATATTTTATTCTTTTTCAGAGAAGGAAAAATAAAAGGATTCTAAAAGTTTGATGCATTGGAAAAATTT  
CCTTGAGGCATTTAGCAACACATAGAAAATGGGCTTTGATTCTTTTCCAAAACCTTTAGCCATAGGGTCTTTTAT  
AGACAGGGATAGTAAATGAAAATTGAGAAATATAAGATGAAAAGGAATGATAAAAAATATCTTTTAGGGGGCTTT



3834/6881

**FIGURE 3533B**

TAATTGGTGATCTGAAATCTTGGGAGAAGCTGTTCTTTTCAGGCCTGAGGTGCTCTTGACTGTGCGCTGCGCACT  
GTGTACCCCGAGCAACATTCTAAGGGTGTGCTTTTCGCCTTGGCTAACTCCTTTGACCTCATTCTTCATATAGTAG  
TCTAGGAAAAAGTTGCAGGTAATTTAAACTGTCTAGTGGTACATAGTAACTAAATTTCTATTCTATGAGAAATG  
AGAATTATTTATTTGCCATCAACACATTTTATACTTTGCATCTCCAAATTTATTGTGGCGAGACTTGTCCATTGT  
GAAAGTTAGAGAACATTATGTTTGTATCATTTCCTTTATAAAACCTCAAGAGCATTTTTAAGCCCTTTTCATCAG  
ACCCAGTGAAACTAAGGATAGATGTTTAAAAACGTGGAGGTCTCCTGATAAGGAGAACACAATCCACCATTGTCA  
TTTAAGTAATAAGACAGGAAATTGACCTTGACGCTTTCTTGTTAAATAGATTTAACAGGAACATCTGCACATCTT  
TTTTCTTGTGCACATTTTGTAAATTGCAGTGGATTAATACAGCAAGAGTGCCACATTATAACTAGGCAATTAT  
CCATTCTTCAAGACTTAGTTATTGTACACTAATTGATCGTTTAAGGCATAAGATGGTCTAGCATTAGGAACATG  
TGAAGCTAATCTGCTCAAAAAGATCAACAAATTAATATTGTTGCTGATATTTCATAATTGGCTGCAATTATTTA  
ATGTTTAATTGGGTTGATCAAATGAGATTCAAGCAATTCACAAGTGCATTAATATAAACAGAACTGGTGGCACTTA  
AAATGATAATGATTAACCTTATATTGCATGTTCTCTTCTTTCACTTTTTTCAGTTTCTACATTTCAAGCCGAGCT  
TGTCAGCTTTTTTTGAAAACACATCAGTAGAAACCAAGATTTTAAATGAAGTGTCAAGACAAAGGCAAAACCTGA  
GCAGTTCCTAAAAAGATTTGCTGTTAGAAATTTTCTTTGTGGCAGTCATTTATTAAGGATTCAACTCGTGATACA  
CCAAAAGAAGAGTTGACTTCAGAGATGTGTTCCATGCTCTCTAGCACAGGAATGAATAAATTTATAACACCTGCT  
TTAGCCTTTGTTTTCAAAAGCACAAAGGAAAAGTGAAAGGGAAAGAGAAACAAGTACTGAGAAGTCTTGTTAAG  
GAATCAGGTTTTTTCTACCTGGTAAACATTCTCTATTCTTTCTCAAAAGATTGCTGTAAGAAAAAATGTAAGAC

3835/6881

**FIGURE 3534**

MKDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKPDNNLVFGTVFTDHMLTVEWSSEFGWEKPHIKP  
LQNLSLHPGSSALHYAVELFEGLKAFRGVDNKIRLFQPNLNMDRMYRSAVRATLPVFDKEELLECIQQLVKLDQE  
WVPYSTSASLYIRPTFIGTEPSLGVKKPTKALLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCKMGG  
NYGSSLFAQCEAVDNGCQQVLWLYGEDHQITEVGTMNLFYWINEDGEEELATPPLDGIILPGVTRRCILDLAHQ  
WGEFKVSERYLTMDDLTTALEGNRVREMFSGGTACVCPVSDILYKGETIHIPTMENGPKLASRILSKLTDIQYG  
REESDWTIVLS

3836/6881  
**FIGURE 3535**

AACACATTTTCAGTTTTGCCTGCATCATAAGAGTGAGCACTCCATTGCTTTCTTTCCTGGCCACACTGCTACAAT  
CCAGCACTAACTATCCATGTCCAGGGTAAGGATCGAGATCGAGAAGCCACACTGCCAGTGAAAAAGCTACGTCT  
TTACTGCATAAATTAGAGGAAGCAATTTTCGGAACAACGGAACCTTCAAACATAAATACTGAATTATCGAACACT  
TGCCAGGCACTTCAGCAGAAGACAAGGAACTGAAGAAGCTTTTTAGATGAGGAATTTCTCACTATGATTCCCT  
GTCCTGCGCAGATGCAATTCACAACCTCTTCAAGAAAAATTGAAGCAGTGTTGCCACAACTATATGGTGGTCA  
AGAAGCAAGAATACATCAGACACCCCTGACCTTGAACATACGTGCTGGTACACACCTCTGCTGGATGCCTTATC  
TCTGGATAGTTTTACAGCAGTTCCAACCTTGAATCAACACCTTTCTCAGGTGTAGCCAACCAATCCACACTCT  
GTGTGAAAGGCCCACATATGGAGAAGTAAAGGATGGTGCTTTGGATGTAAAAAGACAACACAAGTGCCAGGCCC  
CACAAGTGCCCCAGCCAGGAACGAATCTCTCAGGTGCATCAGGATGAATGATGACCAAGTATGGAAGAGAA  
TGGTGTGTAACGCGTGTGCTCTGAGAGCCTGCTGCAGTCCAGGGAATATTCCTCACTACCATTACCCAGACACAC  
TTCATCGACAGACGGTACTATAACTTCAAGTGATCCTGGATTAGAAATCTGAATATGGCTTCTTGTGACCTGA  
CAGAACTCGCTCTGTAAGAAAGAGGAGGATACAAGATCAGCTTCTCCACGATAGAGGCCAAGGCACAAGTCC  
AGCTCATGATAATATTGCATTCCAAGACTCTACGAGTAAGGATAAAACCATATTAAATCTGGAAGCCAAAGAGGA  
ACCAGAAACAATAGAAGAACATAAAAAAGAACATGCTTCAGGAGACTCTGTGGTTTTCCCTCTTCTGTAACCAC  
TGTGAAATCGGTTAACCTTAGACAAAGTGAGAACACTTCTGCTAATGAGAAGGAGGTGGAGGCAGAATTTCTCAG  
ATTATCTTTGGGATTTAAGTGTGACTGGTTTACCTTGGAGAAGAGAGTGAAGCTTGAAGAGAGGTCCCGTGACTT  
GGCAGAAGAAAATTTGAAGAAAGAAATCACTAACTGTTTAAACTATTAGAGTCTTTAACACCTCTGTGTGAAGA  
TGACAACCAGGCACAGGAAATCATTAGAAGCTGGAGAAGAGTATAAAGTTTCTTAGCCAGTGTGCAGCACGAGT  
GGCCAGTAGGGCTGAGATGTTGGGAGCCATCAATCAGGAAAGCCGGGTAGTAAAGCAGTTGAAGTGATGATTCA  
GCACGTAGAAAACCTTGAAGAGGATGTATGCCAAAGAGCACGCTGAATTAGAAGAACTGAAACAGGTTCTTCTGCA  
GAATGAAAGGTCTTTCAATCCTCTTGAAGATGATGATGACTGCCAAATTAACCAAGCTTCTCTAAACTC  
CAAGCCATCTTCTACGAAGAGTGACTATTGCCTCTTTACCCAGAAATATTGGAAATGCAGGAATGGTGGCTGG  
GATGGAAAATAATGATCGATTTCAGTAGAAGGTCAAGCAGTTGGCGTATTTTGGGGTCAAAGCAGAGTGAACACCG  
TCCCTCATTACCTCGATTTATTAGCACCTATTCTGGGCAGATGCTGAAGAAGAAAAATGTGAACTAAAACTAA  
AGATGACTCAGAGCCATCTGGAGAAGAAACAGTAGAAAGGACAAGGAAGCCAAGTCTTTCTGAAAAGAAAAATAA  
TCCATCAAAGTGGGATGTCTCTTCAGTTTATGACACAATAGCTTCCTGGGCAACAAATCTCAAGTCTCCATCAG  
AAAGGCTAATAAGGCCCTCTGGCTCTCTATTGCATTCTTGTACTGTTTGCAGCTTTGATGAGCTTCTCAGAGG  
CCAATTATTCCAGAAGTCTGTGGATGCCGCTCCACACAGCAAGAGGACTCATGGACGTCTCTAGAACATATCTT  
GTGGCCATTTACCAGACTCCGACACAATGGGCCACCACAGTGTGACAGCAGGACATCCTAATATATGGATCTTG  
ATTTTAAAGTTTCAGTATCTGAACTTCGTAAATTAGTAACCTTTAGCTGGGAAAGTATAGCATGAAACCAGAGGT  
TCTCAGAATGACTGTAAGATAGCTTACATTTCTCTTTTGCCTTTATCTCCCAACTAAAATACAATGGG

3837/6881

**FIGURE 3536**

CCAGCCCTGGCGTGGGCCCAGCCCGGCCAGGCAGCAATGGGGTTCCTGCAGCTGCTGGTCGTAGCGGTGCTGGC  
ATCCGAACACCGGTGGCTGGTGCAGCCGAGGTCTTCGGGAATTCAGCGAGGGTCTTATTGAATTTTCTGTGGG  
GAAATTTAGATACTTCGAGCTCAATAGGCCCTTTCCAGAGGAAGCTATTTTGCATGATATTCAAGCAATGTGAC  
TTTTCTATTTTCCAAATACACTCACAGTATCAGAATACAACCTGTTTCCTTTTCTCCGACTCTCCTTTCCAATTC  
CTCGAAACAGGCACTGCCAGTGGACTGGTTTTTCATCCTTAGACCAGAGCAGAGTACATGCACCTTGGTACTTGGG  
GACTTCAGGCATACAGCCTGTCCAGAATATGGCTATCCTACTCTCCTACTCAGAAAGAGATCCTGTCCCTGGAGG  
CTGTAATTTGGAGTTCGATTTAGATATTGATCCCCACATTACTTGGGAGTATAATTCCTTTGAAACGACTATCAA  
GTTTGCCCCAGCAAACCTAGGCTATGCGAGAGGCGTAGATCCCCACCATGTGACGCTGGGACAGACCAGGACTC  
CAGGTGGAGGTTGCAGTATGATGTCTATCAGTATTTTCTGCCTGAGAATGACCTCACTGAGGAGATGTTGCTGAA  
GCATCTGCAGAGGATGGTCAGTGTGCCCCAGGTGAAGGCCAGTGCTCTCAAGGTGGTTACCCTAACAGCTAATGA  
TAAGACAAGTGTTCCTTCTCCTCCCTCCCGGGACAAGGTGTCATATACAATGTCATTGTTTGGGACCCGTTTCT  
AAATACATCTGCTGCCTACATTCTGCTCACACATACGCTTGACGCTTTGAGGCAGGAGAGGGTAGTTGTGCTTC  
CCTAGGAAGAGTGTCTTCCAAAGTGTTCCTCACTCTTTTGGCCTGCTTGGTTTCTTCATTTGTTTCTTTGGACA  
CAGATTCTGGAAAACAGAATTATTCTTCATAGGCTTTATCATCATGGGATTCTTCTTTTATATACTGATTACAAG  
ACTGACACCTATCAAGTATGATGTGAATCTGATTCTGACAGCTGTCACTGGAAGCGTCGGTGGAAATGTTCTTGGT  
AGCTGTGTGGTGGCGATTGGAATCCTCTCGATCTGCAIGCTCTGTGTTGGACTAGTGCTGGGGTTCTCATCTC  
GTCAGTGACTTTCTTTACTCCACTGGGAAACCTAAAGATTTTTCATGATGATGGTGTATTCTGGGTCACTTTCTC  
TTGCATAGCTATCCTCATTCAGTAGTTTTCATGGGCTGCCTAAGAATACTGAACATACTGACTTGTGGAGTCAT  
TGGCTCCTATTTCGGTGGTTTTAGCCATTGACAGTTACTGGTCCACAAGCCTTTCCTACATCACTTTGAACGTACT  
CAAGAGAGCGCTCAACAAGGATTTCCACAGAGCTTTCAAAATGTGCCTTTTCAAATAATGACTTCATTATCCT  
GGCAGTATGGGGCATGCTGGCTGTAAGTGGAAATTACGTTACAGATTGGAAGAGAGAGAGGACGACCGTCTTCCC  
TCCCCACCCATACAAGTTATGGAAGCAAGAGAGAGAGCGCCGAGTGACAAACATTCTGGACCCTAGCTACCACAT  
TCCTCCATTGAGAGAGAGGCTCTATGGCCGATTAACCCAGATTAAAGGGCTCTTCCAGAAGGAGCAGCCAGCTGG  
AGAGAGAACGCCCTTTGCTTCTGTAGATGCCAGGGGCTTGGTCAGTGTGCCTCAGCTTTGGAGTTCATGCCTGGA  
GTGGTTCAACAGTCTCTGGTGCAAGTCTAATAAGAGATCAGGCATATATATCTGTTCTTTGCATAATATTATGGT  
GCCCTTATTGATATATGGTAAGGGTGTACTAGGGGATTAGGATGATTGTAAGAGAATGAGAAAGATGACCAAAAG  
GTTGGTGGTAGGGAGGCTTTTCTTATTTCCAAATACTTGAGAAATTACCTTTTGGTTTACAAATCTATGATCAA  
CTTATTCCATTAAATAGATACATTAAAAAATTAAAAACTGATTCTTCTGCAGAGCACTGGTGTTCCTTTTATA  
ACCCCTTGAAACAAGTCTCTCACCTGAGCCTGTCTAACTTTTCGGAGGGAGTTTATTATTGAGTCTTTATCTGTG  
ACAGTATTTGGAGATTTAGGGATTTGATACTTAGGCCTTTGAATTTTAGAATACAAAAAGAGAAGCAAGCCAGAC  
ATGGTGGCTCACACCTGTAATCCCAATACTGGGAAGCCAAGGTGGGAGTATCGCTTGAGCCCAGGAGTTTGAGAC  
CGACATGGGCAACATGACAAGACCCCATCTCTACAAAAAATTAAAAAATTAGCCAGGCATGGTGGCACATGCCT  
ACTCCCAGCTCCCAAGGAGACTGAGATGGGAGGATCCCTGGAGCCCTGAAGATTGAGGCTACAGTGAGCCTTGAT  
TGTGTCACTGCACTCCAGCTTGGGTGACAGAGACCCTGTCTCGAGAAATT

3838/6881  
**FIGURE 3537**

MGFLQLLVAVLASEHRVAGAAEVFGNSSEGLIEFSVGKFRYFELNRPFEEAILHDISSNVTFILFQIHSQYQN  
TTVSFSPTLLSNSSETGTASGLVFILRPEQSTCTWYLGTSIGQPVQNMAILLSYSERDPVPGGCNLEFDLDIDPN  
IYLEYNFFETTIFAPANLGYARGVDPPPCDAGTDQDSRWRLQYDVYQYFLPENDLTEEMLLKHLQRMVSV PQVK  
ASALKVVTLTANDKTSVSFSSLPQGVIYNVIVWDPFLNTSAAYIPAHTYACSFEEAGEGSCASLGRVSSKVFFTL  
FALLGFFICFFGHRFWKTEFFIGFIIMGFFFYILITRLTIKYDVNLILTAVTGSVGGMFLVAVWWRFGILSIC  
MLCVGLVLGFLISSVIFFTPLGNLKIHFDDGVFWVTFSCIAILIPVFMGCLRILNILTCGVIGSYSVVLAI DSY  
WSTLSYITLNLVKRALNKDFHRAFTNVFPQTNDFIILAVWGMLAVSGITLQIRREGRPFPPHPYKLWKQERE  
RRVTNILDPSYHIPPLRERLYGRLTQIKGLFQKEQPAGERTPLLL

3839/6881  
**FIGURE 3538**

AGACTATCTTTCTAGACAAGGCAGTTGAGGAGGAGGGAGCGCTTGAGGGGGACTGGCCTGGCGTGCACTCCGCAC  
CTCGGGGACATTATTGCGCGTGGAACGGCTGCTTTTGAAGGCACAACCTTCTGAATGGACCATGACTCCCACCA  
AAGATCCCTGTCTCTGATTACCAAACAGCTTCAACCCTGAAACCAGGACGAGAAGTTGACAACATCTGAGTGGA  
CAGCTAATTGACCTAAGACTTCAGACCAGACTATTGCCCAGAAGAAAAGATGTTTGGTTTTACAAGCCAAAGAT  
GTACCGAAGTATAGAGGGCTGCTGTATTTGCAGAGCTAAGTCCTCCAGTTCTCGATTCACTGACAGTAAACGCTA  
TGAAAAGGACTTCCAGAGCTGTTTTGGATTGCATGAGACTCGTTCCAGGAGACATCTGCAATGCCTGTGTCTGCT  
TGTGAAAAGATGGAAGAAGTTGCCAGCAGGATCAAAAAAACTGGAATCATGTGGTAGATGCAAGGGCTGGACC  
CAGTCTAAAGACTACATTGAAACCAAAGAAAGTGAAGTCTATCTGGGAACAGGATAAAAAGCAACCAGATCAG  
TAAACTGCAGAAGGAATTTAAACGTATAATTCTGATGCTCACAGTACCACCTCAAGTGCTCCCCAGCTCAATC  
TCCTTGTTACAGTAACCAGTCAGATGACGGCTCAGATACAGAGATGGCTTCTGGTTCTAACAGAACACCACTTTT  
TTCCTTTTTAGATCTCACTTACTGGAAGACAGAAGATATGTTGTGGGATCATCTATAAAGGCCGTTTTTGGGA  
AGTCCTCATTGACACACATCTCTCAAGCCTTGCTGCAGCAATAAGAAAGCAGCTGCTGAGAAGCCAGAGGAGCA  
GGGGCCAGAGCCTCTGCCCATCTCCACTCAGGAGTGGTGACTGAGGTTTTTATGTAGAAGGGGAACAAAAA  
AATATCTGAATTTGAAAAACCACAAAGCTACAACTGACCCTCTTTTTTTTTTGAGACGGAGTTTTGCTCTTGT  
TACCCAGGCTGGAGTGCACTGGCGTGATCTTGGCTCACTGCAACTTCCGTCTCCCGGGTTCAAGTGATTCTCCTG  
CCTCAGCCTCCCAAGTAGCTGGGTTTATAGGTGCCGCCACCAGACCCGGCTAATTTTTTAGTTTTAGTAGAGAC  
GGGGTTTACCACGTTGGCCAGGCTGGTCTTAAATGACCCCTCTTATTTTAACTTGGATACCTGCTATTCTGCCA  
AAAGACAATTTCTAGAGTAGTTTTGAATGGGTTGATTCCCCCACTCCCAAACTCTGAAGCCAGTGCTTAGCT  
TACTAAAAAAGAGTTGTATATAATATTTAAGATGCTGAGTATTTTATAGGAAAGCTGAATGCTGCTGTAAAGTG  
CTCTTTAAGTCTTTTTTTTTTTAATCCCTTCTAATGAATGAACTAGGGGAATTTTACAGGGACAGAGATGGGA  
TTTGTGTATGATAAACTGTATGTAGTTTTTAGTCTTTCTGTTTTGAGAAGCAGTGTTGGGGCATTTTTAAGAT  
GGCTGGCTACTCTTGTTTTCCCTCATGATAATAAATTTGTACATACTCAGTAACATGAACCTTGCCCTAGAGGTA  
GTTGTATAAATTTTGAAATATTAAGGTCTTGCCAAGCTTCTGATGATTACACCTGTACTACTGATTATTAAGC  
AGGACAGACTGAGCTTTCTGTTGCAATACCTTGGAGGAGAAAGTAATTTCTAAATATACAGAGAGGTAACCTGA  
CTATATATGTTGCATCCTGTGCCTCCCTTCATATTAATTTGATAAAGATTTTAAATTTATGTAAACTTCTAAA  
GCAGAATCAAAGCTCCTCTTGGGGAAATGGCAAGTCTTTAGGATAGGCAAGACCCTGTATGAATAGTACCAAAGC  
ATTACCGCATGGTAGAGAACACACTCGATTAAAAATGTTAAGCTATCTGAAAAATAAATGTGCAAGTCTTCAGG  
ATGGCACAAAACAAAGGTTAATGCTTCTTGGGGCACATTTCTTAGAGGGCTTGCTGAGTGTGTAAATATAATCGA  
CTTTTGTGTTGTTACATGACTTCTGTGACTTCATTGAAAATCTGCACAATTCAGTTTCAGCTCTGGATTACTTC  
AGTTGACCTTTGTGAAGGTTTTATCTGTGTAGAATGGGTGTTGACTTGTTTTAGCCTATTAAATTTTTATTTT  
CTTTCACCTGTATTAAGAGTAAACTTACTAAAAGAAAAGAGGTTTTGTGTTACATTAAATGGTTTTGGTTTG  
CTTCTTTTAGTCAGGCTTTCTGAACATTGAGATATCCTGAACCTTAGAGCTCTTCAATCCTAAGATTTTCATGAAA  
AGCCTCTCACTTGAACCCAAACCAGAGTACTCTTACTGCCTCTTTTCTAAATGTTTCAAGAAAAGCATTGCCAGTT  
CAGTCTTTTCAAATGAGGGAGAAACATTTGCCTGCCTTGTAATAACAAGACTCAGTGCTTATTTTTTAACTGC  
ATTTTAAAAATGGATAGTATAATAACAATAAGGAGTAAGCCACCTTTTATAGGCACCCTGTAGTTTTATAGTTC  
TTAATCTAAACATTTTATATTTCTTCTTTTGAAAAAACCTACATGCTACAAGCCACCATATGCACAGACTATA  
CAGTGAGTTGAGTTGGCTCTCCACAGTCTTTGAGGTGAATTACAAAAGTCCAGCCATTATCATCCTCCTGAGTT  
ATTTGAAATGATTTTTTTTGTACATTTTGGCTGCAGTATTGGTGGTAGAATATACTATAATATGGATCATCTCTA  
CTTCTGATTTATTTATTTATTTACTAGACCTCAACCACAGTCTTCTTTTTCCCTTCCACCTCTCTTGCCTGTA  
GGATGTACTGTATGTAGTCATGCACTTTGTATTAATATATTAGAAATCTACAGATCTGTTTTGTACTTTTTATAC  
TGTTGGATACTTATAATCAAACCTTTTACTAGGATTTGAATAAATCTAGTCTTACTAGAAAAATAAA

3840/6881

**FIGURE 3539**

CTTTCCCAAGCGGCTGGCGAAGACGGCAGAGGTGCAGGTCTTGGTGGCTTGATGGTCGAGGCCATCTCCTGGGCCG  
CCTGGCGGCCATCGTGGTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTTCGTACGCTGCGAAGGCATCAACATT  
TCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTCGCTTTTCTCCGCAAGCGGATGAACACCAACTCTTACCGA  
GGCTCCTACCACTTCCGGGGCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAGACCAAG  
CGAGGCCAGGCCGCTCTGGACCGCCTCAAGGTGTTTGATGGCATCCCACCGCCCTACGACAAGAAAAAGCGGATG  
GTGGTTCCTGTTGCCCTCAAGGTTGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCAC  
GAGTTTGGCTGGAAGTACCAGGCAGGGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTAC  
GGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACACA  
GAGGTCCTCAAGACCCACGGCCTCCTGATCTGAGCCCAATAAAGACTGTTAATTCCTCA

**FIGURE 3540A**

CTGAGGGGACCCGCCAGTTTCTAACTCAGTGGCGTTTGCCCTGATTCCCGGGGGCCTGGCTTTACGCGTAGCAATT  
CTGCCGGCGAAGAAGGTGAGCGCAGTGCTGTGTGGCAGCAGAGCTCCTTAGGACGAGGAGCAGCGGGACGAGGAA  
GGGCAGACTGGTGAAATCGCAAACCTGGGCGTCTGTTCCGGCGCCGACCCCTATTTGCAAAGGTCCATGGCTAAT  
GAAACACAGAAGGTTGGTGCCATCCATTTTCTTTTCCCTTCACACCCTATTCCATCCAGGAAGACTTCATGGCA  
GAGCTGTACCGGGTTTGGAGGCTGGCAAGATTGGGATATTGAGAGTCCAACCTGGCACTGGGAAGTCCTTAAGT  
CTTATTTGTGGGGCCCTCTCTTGGCTCCGTGACTTTGAACAGAAGAAGCGTGAAGAAGAGGGCACGACTCCTTGAA  
ACTGGAACCTGGCCCTTACATGATGAGAAAAGATGAATCCCTGTGTCTGTCTTCTTCTGCGAAGGGGCTGCAGGC  
ACCCCGAGGCCTGCTGGAGAACC GGCTGGGTTACTCAGTTTGTGCAGAAGAAAAGAAGAGAGGGACCTGGTGGAC  
CGACTAAAGGCGGAGCAGGCCAGGAGGAAGCAGCGAGAAGAAGCGCTGCAGCAGCTGCAGCACAGGGTGCAGCT  
AAGTATGCAGCCAAGCGCCTGAGGCAGGAAGAAGAAGAAAAGAGAGAATCTCTCCGCTCAGCAGGGAGATGCTA  
GAGACAGGCCCGGAGGCTGAGCGGCTGGAGCAGCTGGAGTCTGGGGAGGAGGAGCTGGTCTCTGCGGAATACGAG  
AGTGATGAGGAGAAAAAGGTGGCGAGCAGAGTGGATGAGGATGAGGATGACCTGGAGGAAGAACACATAACTAAG  
ATTTATTACTGTAGTCGGACACACTCCCAGCTGGCCAGTTTGTGCATGAGGTGAAGAAGAGCCCTTTGGCAAG  
GATGTTCCGGCTGGTCTCCCTTGGCTCCCGGCAGAACCTTTGTGTAATGAAGACGTGAAAAGCCTAGGTTCTGTG  
CAGCTTATCAACGACCGCTGTGTGGACATGCAGAGAAGCAGGCACGAGAAGAAGAAAGGAGCTGAGGAGGAGAAG  
CCAAAGAGGAGGAGGCAGGAGAAGCAGGCAGCCTGCCCTTCTACAACCACGAGCAGATGGGCCTTCTCCGGGAT  
GAGGCCCTGGCAGAGGTGAAGGACATGGAGCAGCTGCTGGCCCTTGGGAAGGAGGCCCGGGCCTGTCCCTATTAC  
GGGAGCCGCTTGCCATCCCTGCAGCCAGCTGGTGGTGTGCCCTATCAGATGCTGCTGCATGCGGCCACTCGG  
CAGGCCCGGGCATCCGGCTGCAGGACCAGGTGGTGATCATCGACGAGGCGCACAACTGATCGACACCATCACG  
GGCATGCACAGCGTGGAGGTGAGCGGCTCCAGCTCTGCCAGGCCATTCCAGCTGCTGCAGTACGTGGAGCGA  
TACGGGAAGCGTTTGAAGGCCAAGAACCTGATGTACCTGAAGCAGATCCTGTATTGTCTGGAGAAATTCGTGGCT  
GTGCTAGGGGGGAACATTAAGCAAAATCCCAATACACAGAGTCTGTACAGACAGGGACGGAGCTGAAGACCATG  
AACGACTTTCTCTTCCAGAGCCAGATCGACAACATCAACCTGTTCAAGGTGCAGCGATACTGTGAGAAGAGCATG  
ATCAGCAGAAAGCTCTTTGGATTCACTGAACGGTACGGAGCAGTGTTCTCATCCCGGAGCAGCCCAAACCTGGCT  
GGGTTTCAGCAATTCTTGACAGAGCCTGCAGCCAGGACGACTGAAGCTCTTGACAGCCCTGCAGACGAGAGTCAG  
GCCAGCACCTTGCAGACCAGCTTCTCCACTGATGCACATCCAAGGCTTCTTGCGAGCTCTACTACGGCCAACAG  
GACGGCAGGGTCACTCTGAGCCGCCAAGGCAGCCTCAGTCAGAGCACCTGAAGTTTTGTCTCTGAATCCAGCT  
GTGCACTTTGCCCAAGTGGTGAAGGAATGCCGGGCAGTGGTCATTGCGGGGGGTACCATGCAGCCGGTGTCTGAC  
TTCCGGCAGCAGCTGCTGGCCCTGTGCCGGGGTGAAGCTGAGCGCGTGGTGGAGTTTTCTGTGGTACAGTGATC  
CCTCCAGACAACATCTTCCCCCTCGTCACTCTGCAGCGGGATCTCCAACCAGCCGCTGGAATTCAGTTCAGAAA  
AGAGAGCTGCCTCAGATGATGGACGAGGTGGGTGCGATTCTCTGTAACCTGTGCGGTGTGGTTCTTGAGGGGTG  
GTCTGTTTTCTTCCCTCCTACGAGTACCTGCGCCAGGTCCATGCCACTGGGAGAAGGGTGGCTGCTGGGCCGT  
CTGGCTGCCAGGAAGAAGATATTCCAGGAACCTAAGAGCGCACACCAGGTGGAGCAGGTGCTGCTGGCATATTCC  
AGGTGCATCCAGGCCTGTGGCCAGGAGAGAGGCCAGGTGACAGGGGCCCTGCTCCTCTCTGTGTTGGAGGAAAG  
ATGAGTGAAGGGATCAACTTCTTGACAACCTAGGCCGTGTGTGGTGATGGTGGGCATGCCCTTCCCCAACATC  
AGGTCTGCAGAGCTGCAGGAGAAGATGGCTACTTGGATCAAAACCTCAGCCCCCGCCAGGCACCCCCAGGGAA  
GGCTCTGGTGGAGAACCTGTGCATGAAGGCCGTCAACCAGTCCATAGGCAGGGCCATCAGGCACCAGAAGGATT  
TGCCAGCGTAGTGCTCTTGGACCAGCGATATGCCCGGCCCTGTCTTGCCCAAGCTGCGCGGCTGGATCCGAGC  
CCGTGTGGAGGTCAAAGCTACCTTTGGCCCCGCCATTGCTGCTGTGCAGGAAGTTTACCCGGGAGAAGTTCGGCCTC  
TTCCTGATGGGAACCAACCACTGCTTGGCGCGGTGCCCTTCTTTGTCTGCCCTGAGAGCAGTGTGTTGTG  
GTGGCGCTGGTCTGCGGGGATCCTGTGTACAAGGTGAACCCAGGAGGAGTGTGGAGTCCAGAGTGCTGCCAG  
GACCCAGGCACAGGCGTTAGCTCCCGTAGGAGAAAATGGGGAAATCCTGAATGAACAGTGGGTCTTGCTGCTCT  
TGGGGCGTTCCAGGGCAGCTCCCTCCTTGAATAGAATCTTTCTTTCCATCCTGCATGGCTGAGAGCCAGGCTTC  
CTTCTGTGTCTCCGAGGAGGCTGTGGCAGCTGTGGCATCCACTGTGGCATCTCCGTCTGCCACCTTCTTAAG  
AGGCGAGATGGAGCAGGCCCATCTGCCTCTGCCCTTTCTAGCCAAGGTTATAGCTGCCCTGGACTGCTCACTCTC  
TGGTCTCAATTTAAATGATCCATGGCCACAGGGCTCCTGCCAGGGGCTTGTACCTTCCCCTCTCTTCTCTG  
AGTCACTCCTTCAGTAGAAGGCCCTGCTCCCTATCCTGTCCACAGCCCTGCCTGGATTGTATCCTTGGCTTCG  
TGCCAGTTCTCCAAGTCTATGGCACCTCCTCCCTCTCAACCACTTGAGCAAACTCCAAGACACCTTCAACCC



3842/6881  
**FIGURE 3540B**

AACACCAGCAATTATGCCAAGGGCCGTTAGGCTCTCAACATGACTATAGAGACCCCGTGTCATCACGGAGACCTT  
TGTTCCCTGTGGGAAAATATCCCTCCACCTGCAACAGCTGCCCCTGCTGACTGCGCCTGTCTTCTCCCTCTGACC  
CCAGAGAAAGGGGCTGTGGTCAGCTGGGATCTTCTGCCACCATCAGGGACAAACGGGGGCAGGAGGAAAGTCACT  
GATGCCCAGATGTTTGATCCTGCACAGCTATAGGTCCTTAAATAAAAGTGTGCTGTTGGTT

3843/6881  
**FIGURE 3541**

MANETQKVGAIHFPPFTPYSIQEDFMAELYRVLEAGKIGIFESPTGTGKSLSLICGALSWLRDFEQKKREEEAR  
LLETGTGPLHDEKDESLCLSSSCEGAAGTPRPAWVTQFVQKKEERDLVNRLKAEQARRKQREERLQQLQHR  
VOLKYAAKRLRQEEEEERENLLRLSRELETGPEAERPEQLESGEELVLAYESDEEKKVASRVEDEDDDLEEEH  
ITKIYHCSRTHSQLAQFVHEVKKSPFGKDVRVLVSLGSRQNLVCNEDVRSLSVQLINNRCVDMQSRHEKKKGAE  
EEKPKRRRQEKQAACPFYNHEQMGLLRDEALAEVKDMEQLLALGKEARACPYYSRLAIPAAQLVVLPYQMLLHA  
ATRQAAGIRLQDQVVIIDEAHNLIDTTTSMHSVEVSGSQLCQAHSQLQYMERYGKRLKAKNLMYKQIILYLEK  
FVAVLGGNIKQNPNTQSLSQTMELKTINDFLFQSQIDNINLFKVQRYCEKSMISRKLFGFTERYGAVFSSREQP  
KLAGFQQFLQSLQPRTEALAAPADESQASVPQPASPLMHIEGFLAALTANQDGRVILSRQGSLSQSTLKFLLL  
NPAVHFAQVVKECRAVVIAGGTMQPVSNFRQQLACAGVEAERVVEFSCGHVIPPDNILPLVICSGVSNQPLEFT  
FQKRDLPQMMDEVGRILCNLCGVVSGGVVCFPPSYEYLRQVHAHWEKGGLLGRLAARKKIFQEPKSAHQVEQVLL  
AYSRCGQACGQERGPVTGALLSVVGGKMSEGINFSDNLGRCVVMVGMPFPNIRSAELQEKMAYLDQTLPRAPGQ  
AHPGKALVENLCMAVNQSIGRAIRHQKDFASIVLLDQRYARPLCWPSRPGSEPVWRSKLPLAPPLLLCRSFTG  
RSRPLPDGQPHHRPAPCPSFVLPSGDSVCRGRGLQGSCYKGETQEEVESRALPGPRHRR

3844/6881

**FIGURE 3542**

ATGAGTCTGACTTCCAGTTCAGCGGACGAGTTGAATGGATGGCAGCAGTTACCGTTGCTGCTGGGACAGCTGCA  
ATTGGTTATCTAGCTTACAAAAGATTTTATGTTAAAGATCATCGAAATAAAGCTGTGATAAACCTTCACATCCAG  
AAAGACAACCCCAAGACAGTACATGCTTTTGACATGGAGGATTTGGGAGATAATGCTGTGTACTGCCGTTTCTGG  
AGAGAGCCACGACCTGCCCCAGCTGTTGGAGAAGCTGAAAATAAAGGGAATCAACAATCAGCCAATCATCCAAGC  
CAGCAACCTGCTCGCTGTGGCTACCAGCCTCCCCACCACCTATTTACGTAGCCTCTATCCTCCTAAGGCTCCTTCA  
CAAGATGGCAGAGACCGAAGCAGGTCATTAAGTATCTGGCTGAACGATGGGTTAAGGCCAGAGTGGGCTTCAGAG  
CTGGGGCCACTATGA

3845/6881  
**FIGURE 3543**

CCTCCCCCTTTCCCAAGGACAATCTGCAAGAAAGCAGCGCGGAGGAGAGCTAAGACTAAAAGAGTGGATCATG  
ACCCATGAAGAGCACCATGCAGCCAAAACCTGGGGATTGGCAAAGCCATTGCTGTCTTAACCTCTGGTGGAGAT  
GCCCAGGTATGAATGCTGCTGTCAGGGCTGTGGTTCGAGTTGGTATCTTCACCGGTGCCCCGTGTCTTCTTTGTC  
CATGAGGGTTATCAAGGCCTGGTGGATGGTGGAGATCACATCAAGGAAGCCACCTGGGAGAGCGTTTCGATGATG  
CTTCAGCTGGGAGGCACGGTGATTGGAAGTGCCCGGTGCAAGGACTTTCGGGAACGAGAAGGACGACTCCGAGCT  
GCCTACAACCTGGTGAAGCGTGGGATCACCAATCTCTGTGTCATTGGGGGTGATGGCAGCCTCACTGGGGCTGAC  
ACCTTCCGTTCTGAGTGGAGTGACTTGTGAGTGACCTCCAGAAAGCAGGTAAGATCACAGATGAGGAGGCTACG  
AAGTCCAGCTACCTGAACATTGTGGGCCTGGTTGGGTCAATTGACAATGACTTCTGTGGCACCAGATATGACCATT  
GGCACTGACTCTGCCCTGCATCGGATCATGGAAATTGTAGATGCCATCACTACCACTGCCCAGAGCCACCAGAGG  
ACATTTGTGTTAGAAGTAATGGGCCGCCACTGTGGATACCTGGCCCTTGTACCTCTCTGTCTGTGGGGCCGAC  
TGGGTTTTTATTCCTGAATGTCCACCAGATGACGACTGGGAGGAACACCTTTGTCCCGACTCAGCGAGACAAGG  
ACCCGTGGTTCTCGTCTCAACATCATCATTGTGGCTGAGGGTGCAATTGACAAGAATGGAAAACCAATCACCTCA  
GAAGACATCAAGAATGTTCTGATGAATGAAGCCAGAGAGGCCTTAGAATCCATAGCCCATTCCCTTCTGGCTTCT  
GAGTCTCCTGACATTGCTTCTCCCTTGGTCCTTCTGCACATCTCTCCCTGGTTCCTGCCCCCTGATTGCCTCCC  
ACAAAGAACCATTACAAGACAAGAGGCTGAGCTGTCCATGGTTTACCCAAGTCTCTGCTTGTTTTCTTCCTTTGA  
CTCTGCGTAACCCTCTCTCTGTCCCTCTGTGGTCCCTTCAGCTGGTGGTTAAGCGTCTGGGATATGACACCCGG  
GTTACTGTCTTGGGGCATGTGCAGAGGGGTGGGACGCCATCAGCCTTTGACAGAATTCTGGGCAGCAGGATGGGT  
GTGGAAGCAGTGATGGCACTTTGGAGGGGACCCAGATACCCAGCCTGTGTAGTGAGCCTCTCTGGTAACCAG  
GCTGTGCGCCTGCCCCCTCATGGAATGTGTCCAGGTG

3846/6881

**FIGURE 3544**

MTHEEHHAAKTLGIGKIAVLTSGGDAQGMNAAVRAVVRVGIFTGARVFFVHEGYQGLVDGGDHIKEATWESVSM  
MLQLGGTVIGSARCKDFREREGRRLRAAYNLVKGITNLCVIGDGS LTGADTFRSEWSDLLSDLQKAGKITDEEA  
TKSSYLNIVGLVGSIDNDFCGTDMTIGTDSALHRIMEIVDAITTTAQSHQRTFVLEVMGRHCGYLALVTSLS CGA  
DWVFIPECPPDDWEEHLCRRLSETRTRGSRLNIIIVAEGAIDKNGKPITSEDIKNVRMNEAREALESIAHSLLA  
SESPDIASPLGPSAHL SLVPCP

3847/6881  
**FIGURE 3545A**

ACGCAGAGCGCTGCTGGGCTGCCGGGTCTCCCGCTTCCCCCTCCTGCTCCAAGGGCCTCCTGCATGAGGGCGCGG  
TAGAGACCCGGACCCGCGCCGTGCTCCTGCCGTTTCGCTGCGCTCCGCCCCGGGCCCGGCTCAGCCAGGCCCCGCG  
GTGAGCCATGATTCCGCTCGGGGCTCCCCAGACGCTGGTGTGCTGACGCTGCTCGTCGCCGCTGTCTTCGGTG  
TCAGGGCCAGGATGTCCGGCAACCAGGACCAAAGGGACAGAAAGGAGAACCTGGAGACATCAAGGATATTGTAGG  
ACCCAAAGGACCTCCTGGGCTCAGGGACCTGCAGGGGAACAAGGACCCAGAGGGGATCGTGGTGACAAAGGTGA  
AAAAGGTGCCCCCTGGACCTCGTGGCAGAGATGGAGAACCTGGGACCCCTGGAAATCCTGGCCCCCTGGTCTCC  
CGGCCCCCTGGTCCCCCTGGTCTTGGTGGAACTTTGCTGCCAGATGGCTGGAGGATTTGATGAAAAGGCTGG  
TGGCGCCAGTTGGGAGTAATGCAAGGACCAATGGGCCCCATGGGACCTCGAGGACCTCCAGGCCCTGCAGGTGC  
TCCTGGGCCTCAAGGATTTCAAGGCAATCCTGGTGAACCTGGTGAACCTGGTGTCTCTGGTCCCATGGGTCCCCG  
TGGTCTCCTGGTCCCCCTGGAAAGCCTGGTGATGATGGTGAAGCTGGAAAACCTGGAAAAGCTGGTGAAGGGG  
TCCGCTGGTCTCAGGGTGTCTGGTTCCTCCAGGAACCCAGGCCCTTCTGGTGTCAAAGGTACAGAGGTTA  
TCCAGGCCTGGACGGTGCTAAGGGAGAGGGCGGTGCTCCTGGTGTGAAGGGTGAGAGTGGTTCCCCGGGTGAGAA  
CGGATCTCCGGGCCCCAATGGGTCTCGTGGCTGCCTGGTGAAGAGGACGGACTGGCCCTGCTGGCGCTGCGGG  
TGCCCCGAGGCAACGATGGTCAGCCAGGCCCCGAGGGCCTCCGGGTCTGTGCTCCTGCTGGTGGTCTTGCTT  
CCCTGGTGTCTCCTGGAGCAAGGGTGAAGCCGGCCCCACTGGTCCCCGTGGTCTGAAGGTGCTCAAGGTCCCTCG  
CGGTGAACCTGGTACTCCTGGGTCCCCCTGGGCCTGCTGGTGCTCCGGTAACCTGGAACAGATGGAATTCCTGG  
AGCCAAAGGATCTGCTGGTGTCTCCTGGCATTGCTGGTGTCTCCTGGCTTCCCTGGGCCACGGGGCCCTCCTGGCCC  
TCAAGGTGCAACTGGTCTCTGGGCCCGAAAGGTGACAGGGTGAACCTGGTATTGCTGGCTTCAAAGGTGAACA  
AGGCCCAAGGGAGAACCTGGCCCTGCTGGCCCCAGGGAGCCCTGGACCCGCTGGTGAAGAAGGCAAGAGAGG  
TGCCCCGTGGAGAGCCTGGTGGCGTTGGGCCCATCGGTCCCCCTGGAGAAAGAGGTGCTCCCGGCAACCGCGGTTT  
CCCAGGTCAAGATGGTCTGGCAGGTCCCAAGGGAGCCCCCTGGAGAGCGAGGGCCAGTGGTCTTGCTGGCCCCAA  
GGGAGCCAACGGTGACCTGGCCGTCTGGAGAACCTGGCCTTCTGGAGCCCGGGGTCTCACTGGCCGCCCTGG  
TGATGTGGTCTCAAGGCAAGTTGGCCCTTCTGGAGCCCTGGTGAAGATGGTCTGCTGGACCTCCAGGTCC  
TCAGGGGGCTCGTGGGCAGCCTGGTGTCTATGGGTTTCCCTGGCCCCAAAGGTGCCAACGGTGAGCCTGGCAAAGC  
TGGTGAGAAGGGACTGCCTGGTGTCTCCTGGTCTGAGGGGTCTTCTGGCAAAGATGGTGAGACAGGTGCTGCAGG  
ACCCCTGGCCCTGCTGGACCTGCTGGTGAACGAGGCGAGCAGGGTGTCTCCTGGGCCATCTGGGTTCAGGGGACT  
TCCTGGCCCTCCTGGTCCCCCAGGTGAAGGTGGAAAACAGGTGACCAGGGTGTTCCTGGTGAAGCTGGAGCCCC  
TGGCCTCGTGGGTCCCAGGGGTGAACGAGGTTTCCAGGTGAACGTGGCTCTCCCGGTGCCAGGGCCTCCAGGG  
TCCCGTGGCCTCCCCGGCACTCCTGGCACTGATGGTCCCAAGGTGCATCTGGCCCAGCAGGCCCCCTGGGGC  
TCAGGGCCCTCCAGGTCTCAGGGAATGCCTGGCGAGAGGGGAGCAGCTGGTATCGCTGGGCCCAAAGGCGACAG  
GGGTGACGTTGGTGAGAAAGGCCCTGAGGGAGCCCCCTGGAAAGGATGGTGGACGAGGCCTGACAGGTCCCATTTG  
CCCCCTGGCCCAGCTGGTGTCTAATGGCGAGAAGGGAGAAGTTGGACCTCCTGGTCTGCAGGAAGTGTGGTGC  
TCGTGGCGCTCCGGGTGAACGTGGAGAGACTGGGCCCCCGGACCAGCGGGATTTGCTGGGCCTCCTGGTGTGA  
TGGCCAGCCTGGGGCCAAGGGTGAGCAAGGAGAGGCCGCGCCAGAAAGGCGATGCTGGTGGCCCTGGTCTCAGGG  
CCCCCTGAGACCTGGGCCTCAGGGTCTACTGGAGTGACTGGTCTTAAAGGAGCCCGAGGTGCCAAGGCC  
CCCGGAGCCACTGGATTCCCTGGAGCTGCTGGCCGCTGGACCCCCAGGCTCCAATGGCAACCTGGACCCCC  
TGGTCCCCCTGGTCTTCTGGAAAAGATGGTCCCAAAGGTGCTCGAGGAGACAGCGCCCCCTGGCCGAGCTGG  
TGAACCCGGCCTCCAAGGTCTGCTGGACCCCTGGCGAGAAGGGAGAGCCTGGAGATGACGGTCCCTCTGGTGC  
CGAAGGTCCACAGGTCCCAGGGTCTGGCTGGTCAGAGAGGCATCGTGGTCTGCCTGGGCAACGTGGTGAGAG  
AGGATTCCTGGCTTGCTGGCCCGTGGGTGAGCCCGGAAGCAGGGTGTCTCCTGGAGCATCTGGAGACAGAG  
TCCTCCTGGCCCCGTGGGTCTCCTGGCCTGACGGGTCTGCAGGTGAACCTGGACGAGAGGGAAGCCCCGGTGC  
TGATGGCCCCCTGGCAGAGATGGCGCTGCTGGAGTCAAGGGTGATCGTGGTGAGACTGGTGTCTGTGGAGCTCC  
TGGAGCCCCCTGGGCCCTGGCTCCCCTGGCCCCGCTGGTCCAACCTGGCAAGCAAGGAGACAGAGGAGAAGCTGG  
TGCACAAGGCCCATGGGACCCCTCAGGACCAGCTGGAGCCCGGGGAATCCAGGGTCTCAAGGCCCCAGAGGTGA  
CAAAGGAGAGGCTGGAGAGCCTGGCGAGAGAGGCCTGAAGGGACACCGTGGCTTCACTGGTCTGCAGGCTCTGCC  
CGGCCCTCCTGGTCTTCTGGAGACCAAGGTGCTTCTGGTCTGCTGGTCTTCTGGCCCTAGAGGTCTCTGG  
CCCCGTGGTCTCTGAGCAAGATGGTGTCTAATGGAATCCCTGGCCCCATTGGGCCTCCTGGTCCCCGTGGACG  
ATCAGGCGAAACCGGCCCTGCTGGTCTCCTGGAAATCCTGGACCCCTGGTCTCCAGGTCCCCCTGGCCCTGG

3848/6881

**FIGURE 3545B**

CATCGACATGTCCGCCTTTGCTGGCTTAGGCCCCGAGAGAGAAGGGCCCCGACCCCTGCAGTACATGCGGGCCGA  
CCAGGCAGCCGGTGGCCTGAGACAGCATGACGCCGAGGTGGATGCCACACTCAAGTCCCTCAACAACCAGATTGA  
GAGCATCCGAGCCCCGAGGGCTCCCGCAAGAACCCTGCTCGCACCTGCAGAGACCTGAAACTCTGCCACCCTGA  
GTGGAAGAGTGGAGACTACTGGATTGACCCCAACCAAGGCTGCACCTTGGACGCCATGAAGGTTTTCTGCAACAT  
GGAGACTGGCGAGACTTGCCTCTACCCCAATCCAGCAAACGTTCCCAAGAAGAAGTGGTGGAGCAGCAAGAGCAA  
GGAGAAGAAACACATCTGGTTTGGAGAAACCATCAATGGTGGCTTCCATTTTCAGCTATGGAGATGACAATCTGGC  
TCCCAACACTGCCAACGTCCAGATGACCTTCCTACGCCTGCTGTCCACGGAAGGCTCCCAGAACATCACCTACCA  
CTGCAAGAACAGCATTGCCTATCTGGACGAAGCAGCTGGCAACCTCAAGAAGGCCCTGCTCATCCAGGGCTCCAA  
TGACGTGGAGATCCGGGCAGAGGGCAATAGCAGGTTACGTACACTGCCCTGAAGGATGGCTGCACGAAACATAC  
CGGTAAGTGGGGCAAGACTGTTATCGAGTACCGGTCACAGAAGACCTCACGCCTCCCCATCATTGACATTGCACC  
CATGGACATAGGAGGGCCCCGAGCAGGAATTCGGTGTGGACATAGGGCCGGTCTGCTTCTTGTAACCACTGAACC  
CAGAAACAACACAATCCGTTGCAAACCCAAAGGACCCAAGTACTTTCCAATCTCAGTCACTCTAGGACTCTGCAC  
TGAATGGCTGACCTGACCTGATGTCCATTTCATCCACCTCTCACAGTTCGGACTTTTCTCCCTCTCTTTCTAA  
GAGACCTGAACTGGGCAGACTGCAAAATAAAATCTCGGTGTTCTATTTATTTATTGTCTTCTGTAAAGACCTTCG  
GGTCAAGGCAGAGGCAGGAAACTAACTGGTGTGAGTCAAATGCCCCCTGAGTGACTGCCCCCAGCCCAGGCCAGA  
AGACCTCCCTTCAGGTGCCGGGCGCAGGAAGTGTGTGTCTTACACAATGGTGCTATTCTGTGTCAAACACCTC  
TGTATTTTTTAAACATCAATTGATATTAAAAATGAAAAGATTATTGGAAAGT

3849/6881  
**FIGURE 3546**

ATGAGCCACCACCGTCGGGCCTCCGGGCCGGCTTCAGCTCCACCTCATACCGCCGTACCTTCGGTCCACCGCCC  
TCACTATCCCCGGGGCCTTCTCCTACTCGTCCAGCTCCCGCTTCTCCAGCAGCCGCCTGCTGGGCTCCGCGTCC  
CCGAGCTCCTCGGTGCGCCTGGGCAGCTTCCGTAGCCCCGAGCGGGAGCGGGCGCCCTCCTGCGCCTGCCCTCG  
GAGCGCCTCGACTTCTCCATGGCCGAGGCCCTCAACCAGGAGTTCTTGGCCACGCGCAGCAACGAGAAGCAGGAG  
CTGCAGGAGCTCAACGACCGCTTCGCCAACTTCATCGAGAAGGTACGCTTTCTGGAGCAGCAGAACGCGGCCCTG  
CGCGGGGAGCTGAGCCAAGCCCCGGGGCCAGGAGCCGGCGCGCGCCGACCAGCTGTGCCAGCAGGAGCTGCCGAG  
CTGCGGCGAGAGCTGGAGCTGTTGGGCCGCGAGCGTGACCGGGTGCAGGTGGAGCGCGACGGGCTGGCGGAGGAC  
CTGGCGGCGCTAAGCAGAGGTTGGAGGAGGAGACCGCGCAAGCGGGAGGACGCGGAGCACAACCTCGTGCTCTTC  
CGCAAGGACGTGGACGATGCCACTCTGTCCCGCCTGGAAGTAGAGCGCAAGATTGAGTCTCTGATGGATGAGATT  
GAGTTCCTCAAGAAGCTGCACGAGGAGGAGCTGCGAGACCTGCAGGTGAGTGTGGAGAGCCAGCAGGTGCAGCAG  
GTGGAGGTGGAAGCCACGGTGAAGCCCGAGCTGACGGCAGCGCTGAGGGACATCCGCGCGCAGTACGAGAGCATC  
GCCGCGAAGAACCTGCAGGAGGCGGAGGAGTGGTACAAGTCCAAGTACGCGGACCTGTCCGACGCTGCCAACCGG  
AACCACGAGGCCCTGCGCCAGGCCAAGCAGGAGATGAACGAGTCCCGACGCCAGATCCAGAGTCTAACGTGCGAG  
GTGGACGGGCTGCGCGGCACGAACGAGGCGCTGCTCAGGCAGTTGAGAGAGCTGGAGGAGCAGTTCCGCCCTGGAG  
GCGGGGGGCTACCAGGCGGGCGCTGCGCGGCTCGAGGAGGAGCTGCGACAGCTAAAAGAGGAGATGGCGCGGCAC  
CTGAGGGAGTACCAGGAGCTCCTCAACGTCAAGATGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTG  
GAGGGCGAGGAGAGCCGGATCTCCGTGCCCGTCCATTCTTTTGCCTCCTTAAATATAAAGACGACTGTGCCCTGAG  
GTGGAGCCTCCCCAGGACAGCCACAGCCGGAAGACGGTCTGATCAAGACCATTGAGACCCGGAATGGGGAGGTG  
GTGACAGAGTCCCAGAAGGAGCAGCGCAGTGAGCTGGACAAGTCTTCTGCCCACAGTTACTGAACCCCTTGGTCC  
GGAGCCTTGACTCTGCCCTAGGCCTGCTCAAAGCCCCAAACCCTAAGACCACTCCTGAATTGTCTCCTCTCCCTCT  
GCATGTGTCTAAAAGGTGGTACCAGGCATCCCTTTTCTGGCTTATGGCCAAGCCCTACCCGGCCAGCAGTCGCTG  
GCCTCTCCCTGCCCTGACACTTGATGTGACCTATGTGCTTCCCTTTTCATGTCCCGATAAGAAGCCAATGATCCC  
CCCTCAGGACAAATCTACTCCAGCCACGATGAGAAGTGGGTGAGCCAGGGTCTGAGTTTCACATTTGAACCAAAT  
AAAAATGCTGTCAAGAGAAAAAA



3850/6881  
**FIGURE 3547**

MSHHPSGLRAGFSSTSYRRTFGPPPSLSPGAFSYSSSSRFSSSRLLGSASPSSSVRLGSFRSPRAGAGALLRLPS  
ERLDFSMAEALNQEFLATRSNEKQELQELNDRFANFIEKVRFLQQNAALRGELSQARGQEPARADQLCQQELRE  
LRRELELLGRERDRVQVERDGLAEDLAALKQRLEEETRKREDAEHNLVLFKRDVDDATLSRLELERKIESLMDEI  
EFLKKLHEEELRDLQVSVESQQVQQVEVEATVKPELTAALRDIRAQYESIAAKNLQEAEWYKSKYADLSDAANR  
NHEALRQAKQEMNESRRQIQSLTCEVDGLRGTEALLRQLRELEEQFALEAGGYQAGAARLEEELRQLKEEMARH  
LREYQELLNVKMALDIEIATYRKLEGEESRISVPVHSFASLNIKTTVPEVEPPQDSHSRKTVLIKTIETRNGEV  
VTESQKEQRSELDKSSAHSY

3851/6881  
**FIGURE 3548**

GTTCCTGTCGAGGCTGCGAGGAAAGGCCCTAGGCTGGGTCTGGGTGCTTGGCGGCGGGGCTTCCTCCCCGCT  
CGTCCTCCCCGGGCCCAGAGGCACCTCGGCTTCAGTCATGCTGAGCAGAGTATGGAAGCACCTGACTACGAAGTG  
CTATCCGTGCGAGAACAGCTATTCCACGAGAGGATCCGCGAGTGTATTATATCAACACTTCTGTTTGAACACTG  
TACATCCTCTGCCACATCTTCCTGACCCGCTTCAAGAAGCCTGCTGAGTTCACCACAGTTTCATCCTACAAAATG  
GGCGTAACAATGTCTACCTACTCCATTGTGTGGACAAAGGAGATGGTTAATGTGAAAGCCCTTTGTGAACCTGA  
AGTGAGCAACTGCTGGATGAATGTCATTACGGGCACAGGCTCTGTGTATCTCCTCTCCTAGTGCTTCCACAGCC  
AGGACCAGAGACCTCCCTGATGACTGGGGAACCTGTGGATGATGAAGATGCCACCGTCAACAAGATTGCGCTCGA  
GCTGTGCACCTTTACCCTGGCAATTGCCCTGGGTGCTGTCTGCTCCTGCCCTTCTCCATCATCAGCAATGAGGT  
GCTGCTCTCCCTGCCTCGGAACCTACTACATCCAGTGGCTCAACGGCTCCCTCATCCATGGCCTCTGGAACCTTGT  
TTTTCTCTTCTCCAACCTGTCCCTCATCTTCCTCATGCCCTTTGCATATTTCTTCACTGAGTCTGAGGGCTTTGC  
TGGCTCCAGAAAGGGTGTCTGGGCCGGGTCTATGAGACAGTGGTGACGTTGATGCTCCTCACTCTGCTGGTGCT  
AGGTATGGTGTGGGTGGCATCAGCCATTGTGGACAAGAACAAGGCCAACAGAGAGTCACTCTATGACTTTTGGGA  
GTACTATCTCCCTACCTCTACTCATGCATCTCCTTCCTTGGGGTTCTGCTGCTCCTGGTGTGTACTCCACTGGG  
TCTCGCCCGCATGTTCTCCGTCCTGCTGGAAGCTGCTAGTCAAGCCCCGGCTGCTGGAAGACCTGGAGGAGCAGCT  
GTACTGCTCAGCCTTTGAGGAGGCAGCCCTGACCCGCAGGATCTGTAATCCTACTTCCTGCTGGCTGCCTTTAGA  
CATGGAGCTGCTACACAGACAGGTCTGGCTCTGCAGACACAGAGGGTCTGCTGGAGAAGAGGCGGAAGGCTTC  
AGCCTGGCAACGGAACCTGGGTACCCCTGGCTATGCTGTGCTTGCTGGTGTGCTGACGGGCCTGTCTGTGCTCAT  
TGTGGCCATCCACATCCTGGAGCTGCTCATCGATGAGGCTGCCATGCCCGAGTCATGCAGGGTACCTCCTTAGG  
CCAGGTCTCCTTCTCCAAGCTGGGCTCCTTTGGTGCCGTCATTGAGGTTGTACTCATCTTTTACCTAATGGTGTCT  
CTCAGTTGTGGGCTTCTATAGCTCTCCACTCTTCCGGAGCCTGCGGCCAGATGGCACGACACTGCCATGACGCA  
GATAATTGGGAACCTGTGTCTGTCTCCTGGTCTTAAGCTCAGCACTTCCTGTCTTCTCTCGAACCCTGGGGCTCAC  
TCGCTTTGACCTGCTGGGTGACTTTGGACGCTTCAACTGGCTGGGCAATTTCTACATTGTGTTCTCTACAACGC  
AGCCTTTGCAGGCCTCACCACACTCTGTCTGGTGAAGACCTTCACTGCAGCTGTGCGGGCAGAGCTGATCCGGGC  
CTTTGGGCTGGACAGACTGCCGCTGCCGCTCTCCGTTTCCCCCAGGCATCTAGGAAGACCCAGCACCAGTGACC  
TCCAGCTGGGGGTGGGAAGGAAAACTGGACACTGCCATCTGCTGCCTAGGCCTGGAGGAAGCCCAAGGCTAC  
TTGGACCTCAGGACCTGGAATCTGAGAGGGTGGGTGGCAGAGGGGAGCAGAGCCATCTGCACTATTGCATAATCT  
GAGCCAGAGTTTGGGACCAGGACCTCCTGCTTTTCCATACTTAAGTGTGGCCTCAGCATGGGGTAGGGCTGGGTG  
ACTGGGTCTAGCCCTGATCCCAATCTGTTTACACATCAATCTGCCTCACTGCTGTTCTGGGCCATCCCATAG  
CCATGTTTACATGATTTGATGTGCAATAGGGTGGGTAGGGGCAGGGAAGGACTGGGCCAGGGCAGGCTCGGA  
GATAGATTGTCTCCCTTGCTCTGGCCAGCAGAGCCTAAGCACTGTGCTATCCTGGAGGGGCTTTGGACCACCT  
GAAAGACCAAGGGGATAGGGAGGAGGAGGCTTCAGCCATCAGCAATAAAGTTGATCCAGGGTTTGCTTTGTTTT  
TTT

3852/6881  
**FIGURE 3549**

MVNVKALCEPEVSNWMMNVITGTGSVSSPLLVLPPQPGPETSMTGEPVDDATVNKIALELCTFTLAIALGAVL  
LLPFSIISNEVLLSLPRNYIIQWLNGSLIHGLWNLVFLFSNLSLIFLMPFAYFFTESEGFAGSRKGVLRVYETV  
VTLMLLTLLVLGMVWVASAIVDKNKANRESLYDFWEYYLPYLYSCISFLGVLLLLVCTPLGLARMFSVTGKLLVK  
PRLLLEDLEEQLYCSAFEEAALTRRICNPTSCWLPDLMELLHRQVLALQTQRVLLEKRRKASAWQRNLGYPLAMLC  
LLVLTGLSVLIVAIHILELLIDEAAMPVMOGTSLGQVSFSKLGSGFAGVIQVVLIFYLMVSSVVGIFYSSPLFRSL  
RPRWHDAMTQIIIGNCVCLLVLSALPVFSRTLGLTRFDLLGDFGRFNWLGNFYIVFLYNAAFAGLTTCLVKTF  
TAAVRAELIRAFGLDRLPLPVSGFPQASRKTQHQ

3853/6881  
**FIGURE 3550**

GGAGGTGGGAAGTATCCCGGGCTGGGGGTGGGGGTACGCCGCACAGCTCCAGTCGCCGTCGCGGCTTCCGGTGCT  
AGGTGGAGGGAAGGAAGGAGGGAGCCGGGGAGTGGGCCAGGGCAGCAGCCGGGCTGAAGTCGGCTTGGGGAGCCA  
GAGGGAGCGGAGCGGAACCTGCGGGGCAGAGCGGGCGGCCGACGCGGCGCAGCTGATAGCAGGAACAGGATCAAG  
TCTTCCATACCAGGGACCAGGCCAAAACCAGACTGCCACTGCCCTACTTGGGCCCCACTGTCCCGAGAAAGCAG  
CTGCTGTGATCATGGGCAATATCTTTGGAAACCTTCTCAAGAGCCTGATTGGGAAGAAGGAGATGCGCATCCTGA  
TGGTGGGCTGGATGCCGCAGGAAAGACCACCATCCTATACAAGCTGAAACTGGGGGAGATCGTCACCACCATCC  
CTACCATTGGGTTCAATGTGGAGACAGTGGAGTATAAGAACATCAGCTTTACAGTGTGGGATGTGGGTGGCCAGG  
ACAAGATTCGACCCCTCTGGAGACACTACTTCCAGAACACCCAAGGGTTGATATTTGTGGTCGACAGCAATGATC  
GGGAGCGAGTAAATGAGGCCCGGGAAGAGCTGATGAGAATGCTGGCGGAGGACGAGCTCCGGGATGCTGTACTCC  
TTGTCTTTGCAAACAACAGGATCTGCCCTAATGCTATGAACGCTGCTGAGATCACAGACAAGCTGGGCTGCATT  
CCCTTCGTACCGTAACCTGGTACATTACAGCCACCTGTGCCACCAGCGGGGACGGGCTGTACGAAGCCCTGGACT  
GGCTGGCCAATCAGCTCAAAAACAAGAAGTGAAGGCCAGACAGCCCTAACAAAGCACCCACCCACCCCTGACAT  
ACCTACTGTACCCCTGCCCCAGTCTACCCCTTCTCTCCATGCAAGTGTGGCCAGGGCCCTGGGTATCATGTCC  
ACATGCCAGCAAGAGCCTTGCCCTCCCCTGCCCTCCCCTCCTTTTCTGTCCACCTATATGACCAATCCCTAATT  
GCTGTCTGTATGATGAGTCAATTTACTGGATTTAAACAAGGTTGTACGGTTTCATGGGGTGGCCCC  
TCTCTCTCTCACCTCTGGGTTTCGGGAGTTCGAGTGGGGTATTCTCTTTGTTTGGCAGTGGTTGCTGTCTCT  
TGGCATCTGAGTCTTTCCCTGTCCCCACAAGCCCTTCTACTCCCTGTTTGCCTTTCCCTTTGCCACCCCTCTCCCT  
GTTTTACATGGAAATGACACGGGCCTCTCTGTGTTTGCCTGATGTGTGCGCCTGTATATACATGTATAGAGAGA  
TATATTTGTGGGGGGCGGGGGGAGCGGGGAGGGGGTGGAGTGAAGCTCAGGGCTTGACGCCAGGACACTGCCCCAC  
TGGAGCCTGTCTATCTGCCCTTCCGTGTTGGTGAGATTAAGGGAAGAAGGTGGGAGGGCATTAGTCAAGCCGGAC  
TGCCCCAGTCTTTGACTGGTTACCCCTCCTCTCTGCAGGTAGGTTTTTCTGGATGATAGGACAGATGATGATTCT  
TCACCACCATTTTCTTGTACTCTTCTCTCCACCCTTCTTAGGGCTGGAGGATGGCATTATCTCTAGATGACTG  
TTCCCAAGGAGATGCCACTCTGCTCTGCCCTTACTGTTGGGAAGGAGAGAGGAACCCACTCACTCTTATCAGCTTA  
GAGTGTTCAACTGATCCTTCCCCACCATCTTCAGATCTGTTCTCTGGAGCTTGACTGGGGGGTGGGGATGGCAA  
GTCCATGGTGTGTGTTAGGGACCCAGGGCATTGGGGGAAGGGAGGCGAAGGCCTGAGGTTTTCCATCTTCATTCT  
CTTTGTTATTAGGAGAAGGTGAGGCATGGGCCAATCCATTCTGCTTCCAGTGCCCCACCACCCCTTCTGATC  
TTAGGGGTGGATGGGTCACTGTCTTGGTCAGAATTTCTCACCTAGTACTCTACTGGCCTGACCAGGGCT  
GACTGGGTATTCTAATGAGGAGCTGGGAAGTGGGGTGACATAGCTGACCTTAGTATCAACCCCTCTTCTCCAA  
CTCTGTTTCTAGTCCAGGATATGCTAAAGGACGAAGATTTCTATTGTTTCCAGGCCCTCAGACCATCCTTGC  
TGTCCTTTCACCTCCATGCCCTGCCATCCTCACTCACTTCTCATAAATGGATCTGGGGGTAGAGTGGAGGAA  
ATAAAATCCTGAAGTGGTTGTCTAGTGTCTTGGGATGCAGTGGTCTTCAGGATCTCCCCGCATTATTATGTAGT  
TGTTGAGAAGCTGTTGCTACTGCGTCTCTGTCTGCAGGGGGCACTGTTTCTGAGGTCTCGCCTGGGTCTCTG  
ACTTCTGTAGTTTCTGTGAAGACGTGGCTGTCTGTGGGCTCCTGTGTGTGCTGGCTGCGCCTGAGCTCCGAGAC  
AGCTGCCCATAACTGCTAAGGTGAGGGCCAGGGCCCCCACAGCATGGCTGAGGGACCCCTTCCAGTAGGGC  
TGTCCTCAAGCCCCACTCCATGGGGCCAGGTTTCTGGCCACTTTTGTGATAGCAGATGGATCAATATTAGTAAC  
CCCATCCAAGATTGAACTGTGAAAGAGAGGTTCCAGGGGTATCTCCCTCAGTGCCAGTTACTTAGTGATGTGTTA  
CCCAGGATGCAGCAGGTGTGTGCAGGTATCTTGCTCTCTAGGCCTGTGTGTGTGTGTGAGTGTGTGTATATGG  
GTGTGGGTGTGTTTGTGTGTGGTGGTTGTGGGGGGGGTGTGGAGGTTCTATTTCATTTAAATGTATTCATTT  
CCCTGGCCCCACAGATGCTTCCCTCCATACTTTTTATTGTCTGTTTCCCTCAGATTTATTTTGTCTTGCCCCAT  
TGCCCTCTCCTTCTTGAACCTTTTCTTTTCAATCTCAACTCATTCACTGCTGTTGCTCATTGCCCCCTTTCCAT  
GTATTTTCTCTACTTAGGATTTTCCACTCTATCTTTGTGGTTCATGAGGACTTTGCCTCTTCTCCTGCCTCATT  
CCCTGACTTTCTCTAGTTAGATGTCAGTCTAAATAGGTTTTCTCACTTCAGGCCTCACCCCTCACCTTGTTTT  
TTTGGGGGCTCCAGGGACCAATCTGGGGCTGGAATGTTAGGAGGTTGCCTTGGTGTGCTGCCCGAGATCTGTCCAG  
CAGGGGGCAGTAAGTGATCTTGGTAGTATCCCTGGCTGCTAAGCCCTTGGCAGGGGTGGTCCTTCTACATTCCC  
ATTCACCTAACAGCTCTTTGGGATTGGGTGTTTCATTCCATTTCTGCCACTCCCTCTCCTCTCCTCTCTGGTA  
GGTTAATTTTATGCTTTCCCTGATTCCAGCTTTCTGCTTCTGAGGACTCCCGCTCCCCCACCACCAAGTTTG  
TCGTGGTGTATAGTGGTAAGTGCAGTTCCTCCTCTGGAATGTAGACTGTATATGTTTAACTACACCTTCTC  
TATCCTTGCTCAAAATGTGGGATAACCGGATGACTGTGACCCTGGTTGGAAATTAACCTTGTTTATGCA

3854/6881  
**FIGURE 3551**

MGNIFGNLLKSLIGKKEMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIR  
PLWRHYFQNTQGLIFVVDSDNDRERVNEAREELMRMLAEDELRLDAVLLVFANKQDLPNAMNAAEITDKLGLHSLRH  
RNWYIQATCATSGDGLYEGLDWLANQLKNKK

3855/6881  
**FIGURE 3552**

AGTGGCGGCGCAGCGCAGCTCCTGAGGTTTTGGTTATGAACAGGATTCCGGATTCACGTCTTGCCAACCAATCGGGG  
GAGGATCACTCCAGTGCCAGGTCTCAGGAACCTCTGTCTTGTGCATTCACTCATCGTCCATGCTCTCACCCTCG  
TCTGGAGGGGCGAGGAGTTTTGCATTAAGCATATCCTTGAAGACAAGAATGCACCCCTTCAAGCAGTGTAGTTATAT  
ATCGACGAAGAATGGAAGAAAGATGTCCCAATGCTGCCCCAAAGCCAGAGAAGAAAGATGGGGTGTCTTCTGTGC  
TGAACATGTCCGTAGGAATGCCCTGGCACTTCATGCTCAAATGAAGAAGACCAACCTAGGGCCTGTGGGTGAAAC  
ACTCCTGTGCCAGCTGAGCTCATATGCTAAGACAGAGCTGGGGTCTCAGACTCCAGAAAGTAGTCGCAGTGAAGC  
CAGCCGAATACTAGACATGCTGGTGTCTACACAGCAGAAGAAGTGGCCCTGATTATGCGTGAAAAGCTAATTCGT  
TTGCAGTCGTTGTATATTGATCAGTTTAAACGACTTCAGCATCTGCTCAAGGAGAAGAAGCGCCGATACTTACAT  
AATCGCAAAGTGGAACATGAAGCTCTAGGCAGTAGTCTCTGACTGGCCAGAGGGACTTTTGGCCAAAGAACGA  
GAGAACTTAAAGCGATTAAATGTCTGCGACGATACCGCCAGCGCTATGGAGTGGAAGCCTTACTGCATAGGCAG  
TTGAAGGAACGGAGAATGCTGGCCACAGATGGTGTGCCCAACAGGCCCATACCACTCGTTCCAGTCAGAGGTGC  
TTGGCCTTTGTGGATGATGTTTCGTTGTCCAATCAGTCTCTTCCAATGACCAGACACTGCCTTACCCAGAAAGAT  
GCGACTGCCATTGGTGACCTGTTAACTCTTTACTGTGGTCTAATGGAGACAGCACTCGACTGAAAGTGAAGGACC  
CAGACTCTAGTTGACTTGGATGTTGTGGGTGATGGTATGCAGTGTCTCTCTTACCTTTGCTTTTGTATCCTTCA  
CTAACCCCTTGAAGATCATTTAGTCAAAGAAATTGCTGAAGACACAGTGGATATTTTGGGCCAGATGCAGATGGCT  
GGAGATGGGTGCAGATCCCAGGGATCTCGAAATTCTGAGAAAGCCTCTGCACCAATTGTCTCAGAGTGGATTGGCT  
ACTGCAAATGGGAAGCCAGAACCCACTTCTATTAGTTGATAGTTTGGGAACCATTTTACTTTGGTGGATTTAAA  
TTTCTCGTTCTTCAAAGAAGTATTTCTGATCATCTCTCACAAAACACAGGCAACCCAGACTACCTTGTTTTCTT  
CTGGATTGAGTATTATAGTCAAACGTAAAGCCAAATTTTGAGGACGTGGACCGTGGGTTTCTTCCCACTCAGGGC  
AAGGAAGAGAAAGAGAGATAATCCCTATCAAAGCTTCTGGGATCATTGAGGACTATACCTAAAAGGAAAGTGACA  
TCTTTGTAATGGGATTCCCAAGTCATGGATAGAAATCCACTTAAGTAGCTAGGTGGGAGCTGTCTTTGTGAGTG  
GTGTCTTTGAGATACTGATGGCCCTAATATCGGTTATCTCTATCTGAAGACCTGCAGTTTAGCTTTTCTTACCT  
CTACTTAATTGGGCAGTCTTTAACCCCTTTCCCTGGTGAAGTCTGGCTTTTATCCTCTGAGAAAACAGCCACA  
GGACTGGGTCTCTTATCCGTCTTGCTTTTAACTATGTAAATTTCTGTGGTTGCTATCTTATGTAAATATAG  
TAAAAATTTATTGTATATAGTTTCTATTAAATGTTAAAGAAATGTTATGAAAATATCAAACAGTCACCTGAATT  
GAATGCAAAAAAAAAAAAAAAAAAAAA

3856/6881  
**FIGURE 3553**

MREKLIRLQSLYIDQFKRLQHLLKEKKRRYLHNRKVEHEALGSSLLTGPEGLLAKERENLKRLKCLRRYRQRYGV  
EALLHRQLKERRMLATDGAAQQAHTTRSSQRCLAFVDDVRCSNQSLPMTRHCLTQKDATAIGDLLTLYCGLMETA  
LD

3857/6881

## FIGURE 3554A

ATGGACAGCCAGAAGCTGGCTGGTGAGGATAAAGATTGAGAACCGGCAGCTGATGGACCTGCAGCTTCTGAGGAC  
CCAAGTGCCACTGAGTCAGACCTGCCCAACCCACATGTGGGAGAGGTCTCTGTCTTAGTTCTGGGAGTCCCAGG  
CTTCAGGAGACTCCTCAGGACTGCAGTGGGGGTCGGGTGCGGCGTTGTGCTCTCTGTAACTGCGGGGAGCCAGT  
CTACACGGGCAGCGGGAGCTACGGCGCTTTGAGTTGCCATTTGATTGGCCCCGGTGCCAGTGGTGTCCCTGGG  
GGGAGCCAGGGCCCAATGAGGCAGTGCTGCCAGTGAGGACCTATCACAGATTGGTTTCCCTGAGGGCCCTTACA  
CCTGCCACCTAGGAGAACCTGGAGGGTCTGCTGGGCTCACCATTGGTGTGCTGCATGGTCGGCAGGCGTATGG  
GGCAGGAGGGCCAGAACTATGTGGTGTGGACAAGGCCATCTTCTCAGGGATCTCACAGCGCTGCTCCCACTGC  
ACCAGGCTCGGTGCCTCCATCCCTTGCCGCTCACCTGGATGTCCACGGCTTTACCACTTCCCCTGCGCGACTGCC  
AGCGGTTCTTCCATCCATGAAAACACTGCAGCTGCTATGCCAGAGCACAGTGAGGGGGCTGCATATCTGGAG  
GAGGCTCGCTGTGAGTGTGTGAGGGGCCAGGGGAGTTGTGTGACCTGTTCTTCTGTACCAGCTGTGGGCATCAC  
TATCACGGGGCTGCCTGGACACTGCTCTGACTGCCCGAAACGTGCTGGCTGGCAGTGCCCTGAATGCAAAGTG  
TGCCAAAGCTGCAGGAAACCTGGGAATGACTCTAAGATGTTGGTTTGTGAGACGTGTGACAAAGGATACCATACT  
TTCTGCCTAAAACACCCATGGAGGAAGTGCCTGCTCACTCTTGAAGTGCAAGGCGTGCCGGGTGTGCCGGGCC  
TGTGGGGCGGGCTCAGCAGAACTGAATCCCACTCGGAGTGGTTTGAAGTAATCTCTCTGTACCCGCTGTCTAC  
AAAGCCAGGGAGGTGAGACTATCCGCTCCGTTGCTGAGCAGCATACCCCGGTGTGTAGCAGATTTTACCCCCA  
GAGCCTGGCGATACCCCACTGACGAGCCCGATGCTCTGTACGTTGCATGCCAAGGGCAGCCAAAGGGTGGGCAC  
GTGACCTCTATGCAACCAAGGAACAGGGCCCTGCAATGTGAAGCCAAACCACTAGGGAAAGCAGGGGTCCAA  
CTTGAGCCCCAGTTGGAGGCCCCCTAAACGAGGAGATGCCACTGCTGCCCCACCTGAGGAGTCACCCCTGTCC  
CCACCACTGAGGAATCACCACGTCCTCCACCACTGAGGCATCACGCTGTACCACCACTGAGGAATTGCC  
GCATCCCACTTCTGAGGCATTGCACCTGTCCCGGCGCTGGAGGAATCGCCCTCTCTCCGCGCCTGAGGAG  
TCTCTCTGTCTCCCCACCTGAATCATCACTTTTTCTCCACTGGAGGAGTCGCCCTGTCTCCACCGGAAGAG  
TCACCCCTATCTCTGCACTTGAGACGCCTCTATCCCCACCACTGAAGCATCGCCCTGTCCCCACCATTTGAA  
GAATCTCTTTGTCCCCGACCTGAGGAATTGCCCACTTCCCGCCACCTGAAGCATCTCGCTGTCTCCACCA  
CCTGAGGAGTCACCCATGTCCCCCTCCACCTGAAGAGTCACCATGTCTCCACCAACCGAGGCATCTCGTCTGTT  
CCACCAATTGAAGAGTCTCCTCTGTCCCCTCCACCTGAGGAGTCTCCCCTTTCCCCACCACTGAGGCATCACGC  
CTGTCCCCACCACTGAGGACTCGCCTATGTCCCCACCACTGAAGAATCACCTATGTCCCCCCACCTGAGGTA  
TCGCGCCTATCCCCCTGCCTGTGGTGTACGCGCTGTCTCCACCGCTGAGGAATCTCCCTTGTCCCCACCGGCC  
CTGTCTCCTTTGGGGGAGTTAGAGTACCCCTTTGGTGCCAAAGGGGACAGTGACCCTGAGTCACCGTTGGCTGCC  
CCCATCCTGGAGACACCCATCAGCCCTCCACAGAAGCTAACTGCACTGACCCTGAGCCTGTCCCCCTATGATC  
CTTCCCCCATCTCCAGGCTCCCCAGTGGGGCCGGCTTCTCCCATCCTGATGGAGCCCTTCTCTCAGTGTTCCG  
CCACTCCTTCAGCACTCCCTGTTTCCCCAAACTCCCTCCTTCCAGTGCTCTCCTCTGCCCTACCACCTGTCC  
GTTCCCTCCCCGTTGAGTCCCATAGGAAGGTAGTGGGGGTCTCAGATGAGGCTGAGCTGCACGATGGAGACT  
GAGAAAGTTTTCAGAACTGAATGCCAGCCTTGAACCCAGTGCCACCACTCTCTCCCTTCCCCAATGGGGGAC  
CTTCTCTGCCCGCCCCAGCCCTGCCCCAGCCCTGGATGACTTCTCTGGCCTAGGGGAAGACACAGCCCTCTG  
GATGGGATTGATGCTCCGGGTTACAGCCAGAGCCTGGACAGACCCCTGGCAGTTTGGCTAGTGAACCTAAAGGC  
TCCCCTGTGCTCCTGGACCCCGAGGAGCTGGCCCTGTGACCCCTATGGAGGTCTACCCCGAATGCAAGCAGACA  
GCAGGGCAGGGCTCACCATGTGAAGAACAGGAAGAGCCAGTGCACCGGTGGCCCCACACCACTCTCATC  
AAATCCGACATCGTTAACGAGATCTTAATCTGAGCCAGGGTGATGCCAGTGCCAGTTTCTGGCTCAGAGCCC  
CTCCTGGGCTCTCCAGACCCGAGGGGGGGTGGCTCCCTGTCCATGAGATTGGGGGTCTCTACGGATGTTAGTCCA  
GCCCCAGATGAGGGCTCCCTACGGCTCTGTACTGACTCACTGCCAGAGACTGATGACTCACTATTGTGCGATGCT  
GGGACAGCTATCAGCGGAGGCAAAGCTGAGGGGGAGAAGGGGCGGCGCAGCTCCCCAGCCGTTCCCGCATC  
AAACAGGGTTCGACGAGCAGTTTCCAGGAAGACGCCGGCTCGTGGAGGAGCCATGGAGGACGTGGTAGAGGA  
CGGGCCCGGCTAAAGTCAACTGCTTCTTCCATTGAGACTCTGGTAGTTGTGACATTGATAGCTCTCCAGTAAG  
GAGGAGGAGGAAGAAGATGATGACACCATGCAGAATACCGTGTTCTTCTCTCCAACACAGACAAATTTGTCTTA  
ATGCAGGACATGTGTGTGGTATGTGGCAGCTTTGGCCGGGGGCGAGAGGGCCACCTCCTTGCTTCCGATGTC  
TCTCAGTGCTATACCCCTTACTGTGTCAACAGCAAGATCACCAAGGTGATGCTGCTCAAGGGCTGGCGTTGTGTG  
GAGTGTATTGTGTGTGAGGTGTGTGGCCAGGCCTCCGACCCCTCACGCTGCTGCTGTGTGATGACTGTGATATT  
AGCTACCACACATACTGCCTGGACCCCCACTGCTCACCGTCCCCAAGGGCGGCTGGAAGTGCAAGTGGTGTGTG



3858/6881  
**FIGURE 3554B**

TCCTGTATGCAGTGTGGGGCTGCTTCCCCTGGCTTCCACTGTGAATGGCAGAATAGTTACACACACTGTGGGCCC  
TGTGCCAGCCTGGTGACCTGCCCTATCTGTCTATGCTCCTTACGTAGAAGAGGACCTACTAATCCAGTGCCGCCAC  
TGTGAACGGTGGATGCATGCAGGCTGTGAGAGCCTCTTACAGAGGACGATGTGGAGCAGGCAGCCGATGAAGGC  
TTTACTGTGTCTCTGCCAGCCCTACGTGGTAAGCCTGTGGCGCCTGTTCACCTCCAGAGCTGGTGCCCATG  
AAGGTGAAAGAGCCAGAGCCCCAGTACTTTCGCTTCGAAGGTGTGTGGCTGACAGAACTGGCATGGCCTTGCTG  
CGTAACCTGACCATGTCACCACTGCACAAGCGGCGCCAACGGCGAGGACGGCTTGGCCTCCCAGGCGAGGCAGGA  
TTGGAGGGTTCTGAGCCCTCAGATGCCCTTGGCCCTGATGACAAGAAGGATGGGGACCTGGACACCGATGAGCTG  
CTCAAGGGTGAAGGTGGTGTGGAGCACATGGAGTGCGAATTAAGTGGAGGGCCCCGTCAGCCCTGATGTGGAG  
CCTGGCAAAGAGGAGACCGAGGAAAGCAAAAACGCAAGCGTAAACCATATCGGCCTGGCATTGGTGGTTTCATG  
GTGCGACAGCGGAAATCCCACACACGACGAAAAAGGGGCTGCTGCACAGGCGGAGGTGTTGAGTGGGGATGGG  
CAGCCCGACGAGGTGATACCTGCTGACCTGCCTGCAGAGGGCGCCGTTGGAGCAGAGCTTAGCTGAAGGGGATGAG  
AAGAAGAAGCAACAGCGGCGAGGGCGCAAGAAGAGCAAACTGGAGGACATGTTCCTGCTTACTTGCAGGAAGCC  
TTCTTTGGGAAGGAGCTGCTGGACCTGAGCCGTAAGGCCCTTTTTCAGTTGGGGTGGGCCGCGCAAGCTTTGGA  
CTAGGGACCCCAAAAGCCAAGGGAGATGGAGGCTCAGAAAGGAAGGAACCTCCACATCGCAGAAAGGAGATGAT  
GGTCCAGATATTGCAGATGAAGAATCCCGTGGCCTCGAGGGCAAGCCGATACACCAGGACCTGAGGATGGGGG  
GTGAAGGCATCCCCAGTGCCCGTACCTGAGAAGCCAGGCAACCCAGGTGAAGGGATGCTTAGCTCTGACTTA  
GACAGGATTTCCACAGAAGAACTGCCCAAGATGGAATCCAAGGACCTGCAGCAGCTCTTCAAGGATGTTCTGGGC  
TCTGAACGAGAACAGCATCTGGGTTGTGGAACCCCTGGCCTAGAAGGCAGCCGTACGCCACTGCAGAGGCCCTTT  
CTTCAAGGTGGACTCCCTTTGGGCAATCTGCCCTCCAGCAGCCCAATGGACTCCTACCCAGGCCCTCTGCCAGTCC  
CCGTTCTGGATTCTAGGGAGCGCGGGGGCTTCTTTAGCCCGGAACCCGGTGAGCCCGACAGCCCTTGGACGGG  
TCAGGTGGCACCACGCCCTCCACCCCAACACCCCAACCGAGGGGTGAGGGCGACGGACTCTCCTATAACCAG  
CGGAGTCTTCAGCGCTGGGAGAAGGATGAGGAGTTGGGCCAGCTGTCCACCATCTACCTGTGCTCTATGCCAAC  
ATTAATTTTCTAATCTCAAGCAAGACTACCCAGACTGGTCAAGCCGTTGCAAAACAAATCATGAAGCTCTGGAGA  
AAGGTTCAGCAGCTGACAAAGCCCCCTACCTGCAAAAGGCCAAAGATAACCGGGCAGCTCACCAGCATCAACAAG  
GTGCAGAAGCAGGCTGAGAGCCAGATCAACAAGCAGACCAAGGTGGGCGACATAGCCCGTAAGACTGACCGACCG  
GCCCTACATCTCCGATTCCCCCGCAGCCAGGGGCACTGGGCGAGCCCGCCCCCGCTGCTGCCCCCACCATTTC  
ATTGGCAGCCCCACTACCCCCGCGGCTTGTCTACCTCTGCGGACGGGTTCTGTAAGCCGCGCGGGCTCGGTG  
CCTGGCCCTGACTCGCCTGGTGAAGCTCTTCTCAAGCTCCACCCAGGTGCCCCGCAAGTGCTTTCGAGGAC  
CCCTTTGGACTGGCCCTGCCTATCCCCTGGAGCCCGCTTCCCCACGGCACCGCCACCTATCCCCCTATCCT  
AGTCTACGGGGGCCCCCTGCGCAGCCCCCGATGCTGGGCGCCTCATCTCGTCTGGGGCTGGCCAGCCAGGGGAA  
TTCCACACTACCCACCTGGCACCCCAAGACACAGCCCTCCACACCTGACCCATTCTCAAACCCCGCTGCCCC  
TCGCTGGATAACTTGGCTGTGCTGAGAGCCCTGGGGTAGGGGGAGGCAAGCTTCCGAGCCCTGCTCTCGCCC  
CCACCTTTTGGGGAGTCCCGGAAGGCCCTAGAGGTGAAGAAGGAAGAGCTTGGGGCATCTCTCTAGCTATGGG  
CCCCAAACCTGGGCTTTGTTGACTCACCTCCTCAGGCACCCACCTGGGTGGCCTGGAGTTAAAGACACCTGAT  
GTCTTCAAAGCCCCCTGACCCCTCGGGCATCTCAGGTAGAGCCCCAGAGCCCGGGCTTGGGCCTAAGGCCCCAG  
GAGCCACCCCTGCCAGGCTTTGGCACCTTCTCTCAAGTACCCAGACATCTTTCGCCCTGGCTCCTACACT  
GACCCATATGCTCAGCCCCCATTGACTCCTCGGCCCAACCTCCGCCCTGAGAGCTGCTGTGCTCTGCCCCCT  
CGCTCACTGCCCCCTCGACCCCTTCTCCCGAGTGCTGCCAGTCTCAGTCCAGTCCAGCTCCAGTCTCCACTG  
ACACCCCGGCTCTGTCTGCTGAAGCTTTTGGCCATCACCCGTTACCCCTCGCTTCCAGTCCCTGACCCCTAT  
TCTCGCCACCCCTCAGCCCTCAGTCCCGTGACCCATTGCCCCATTGCATAAGCCACCCGACCCAGCCCCCT  
GAAGTTGCCCTTAAGGCTGGGTCTTAGCCACACTTCGCTGGGGGCTGGGGAGTTCCAGCAGCCCTGCCCCG  
GGGCCAGCAGGTGAGCTCCATGCCAAGGTCCCAAGTGGGCAGCCCCCAATTTGTCCGGTCCCTGGGACGGT  
GCATTTGTGGGCACCCCTCTCCCATGCGTTTCACTTTCCTCAGGCAGTAGGGGAGCCTTCCCTAAAGCCCCCT  
GTCCCTCAGCCTGGTCTCCCGCCACCCATGGGATCAACAGCCATTGTTGGGCCCGGCCACCTTGGGCAAGCCT  
CAAAGCACAACTACACAGTAGCCACAGGGAACCTCCACCCATCGGGCAGCCCCCTGGGGCCAGCAGCGGGTCC  
ACAGGGGAGAGCTATGGGCTGTCCCCACTACGCCCTCCGTGCGTTCTGCCACCACCTGCACCCGACGGATCCCTC  
CCCTACCTGTCCATGGAGCCTCACAGCGATCAGGCATCACCTCTCTGTGAAAAGCGAGAAGACCCAGGGACT  
GGAATGGGTAGCTCTTTGGCGACAGCTGAACCTCCAGGTACCCAGGACCCAGGCATGTCCGGCCTTAGCCAAACA

3859/6881  
**FIGURE 3554C**

GAGCTGGAGAAGCAACGGCAGCGCCAGCGACTACGAGAGCTGCTGATTTCGGCAGCAGATCCAGCGCAACACCCTG  
CGGCAGGAGAAGGAAACAGCTGCAGCAGCTGCAGGAGCAGTGGGGCCTCCAGGCAGCTGGGGTGCTGAGCCCAGC  
AGCCCTGCCTTTGAGCAGCTGAGTCGAGGCCAGACCCCTTTGCTGGGACACAGGACAAGAGCAGCCTTGTGGGG  
TTGCCCCAAGCAAGCTGAGTGGCCCCATCCTGGGGCCAGGGTCTTCCCTAGCGATGACCGACTTCCCGGCCA  
CCTCCACCAGCCACGCCCTTCTCTATGGATGTGAACAGCCGGCAACTGGTAGGAGGCTCCCAAGCTTCTATCAG  
CGAGCACCTATCCTGGGTCCCTGCCCTTACAGCAGCAACAGCAACAACAGGCAACAGCA  
GCAACCTCCATGCGATTTGCCATGTGAGCTCGCTTTCATCAACTCCTGGACCTGAACCTGGCCGCCAAGCCCTA  
GGTTCCCCGTTGGCGGGAATTCCACCCGCTGCGCAGGCCCTGGTGAGCCAGTGCCTGGTCCAGCTGGTCTGCC  
CAGTTTCATTGAGCTGCGGCACAATGTACAGAAAGGACTGGGACCTGGGGGCCTCCGTTTCTGGTTCAGGGCCCA  
CCTCAGAGACCCCGTTTTTACCCTGTAAGTGAGGACCCCAACGACTGGCTCCTGAAGGGCTTCGGGGCCTGGCG  
GTATCAGGTCTTCCCCACAGAAACCTCAGCCCCACCGGCCCTGAATTGAACACAGTCTTCATCCAACACCC  
CACACCAAGGGTCTTACCTGCCAAGCTGGTTTGGAGCTGGTCAACCGGCCCTCGAGCACTGAGCTTGGCCGC  
CCCAATCCTCTGGCCCTGGGAAGCTGGGAAGTTGCCCTGTGAGGATCCCGAGCTGGATGACGATTTTGATGCCAC  
AAGGCCCTAGAGGATGATGAAGAGCTTGCTCACCTGGGTCTGGGTGTGGATGTGGCCAAGGGTGATGATGAACCT  
GGCACCTTAGAAAACCTGGAGACCAATGACCCCCACTTGGATGACCTGCTCAATGGAGACGAGTTTGACCTGCTG  
GCATATACTGATCCTGAGCTGGACACTGGGGACAAGAAGGATATCTTCAATGAGCACTGAGGCTGGTAGAATCG  
GCTAATGAGAAGGCTGAACGGGAGGCCCTGCTGCGGGGGGTGGAGCCAGGACCTTGGGCCCTGAGGAGCGCCCT  
CCCCCTGCTGCTGATGCCCTTGAACCCCGCTGGCATCTGTGCTCCCTGAGGTGAAGCCCAAGGTGGAGGAGGGT  
GGACGCCACCCCTTCTCCTTGCCAATTCACCATTTGCTACCCCCAAGGTAGAGCCCGCACCTGCTGCCAATTCCTT  
GGCCTGGGGCTAAAGCCAGGACAGAGCATGATGGGCAGCCGGGATACCCGGATGGGCACAGGGCCATTTTCTAGC  
AGTGGGCACACAGCTGAGAAGGCCTCCTTTGGGGCCACGGGAGGACCACCAGCTCACCTGCTGACCCCCAGCCCA  
CTGAGTGGCCAGGAGGATCCTCCCTGCTGGAAAAGTTTGAAGCTCGAGAGTGGGGCTTTGACCTTGCTGGTGGGA  
CCTGCAGCATCTGGGGATGAGCTAGACAAGATGGAGAGCTCACTGGTAGCCAGCGAGTTACCCCTGCTCATTGAG  
GACCTGTTGGAGCATGAGAAGAAGGAGCTGCAGAAGAAGCAGCAGCTTTCAGCACAGTTGCAGCCTGCCAGCAG  
CAGCAGCAACAGCAGCAGCAGCATTCCTACTGTCTGCACCAGGCCCTGCCAGGCCATGTCTTTGCCACATGAG  
GGCTCTTCTCCAGTTTGGCTGGGTCCCAACAGCAGCTTTCCTGGGTCTTGCAAGGTGCCCGACAGCCAGGTTT  
CCCCAGCCACTGATGCCACCCAGCCACCAGCTCATGCCCTCCAGCAACGCCTGGCTCCATCCATGGCTATGGTG  
TCCAATCAAGGGCATATGCTAAGTGGGCAGCATGGAGGGCAGGCAGGCTTGGTACCCAGCAGAGCTCACAGCCA  
GTGCTATCACAGAAGCCCATGGGCACCATGCCACCTTCCATGTGCATGAAGCCGAGCAATTGGCAATGCAGCAG  
CAGCTGGCAAACAGCTTCTTCCAGATACAGACCTGGACAAATTTGCTGCAGAAGATATCATTGATCCCATTGCA  
AAGGCCAAGATGGTGGCTTTGAAAGGCATCAAGAAAGTGATGGCTCAGGGCAGCATTGGGGTGGCACCTGGTATG  
AACAGACAGCAAGTGTCTCTGCTAGCCCAGAGGCTCTCGGGGGGACCTAGCAGTGATCTGCAGAACCATGTGGCA  
GCTGGGAGTGGCCAGGAGCGGAGTGCTGGTGATCCCTCCAGCCTCGTCCCAACCCGCCCACTTTTGCTCAGGGA  
GTGATCAATGAAGCTGACCAGCGGCAGTATGAGGAGTGGCTGTTCCATACCCAGCAGCTCCTACAGATGCAGCTG  
AAGGTGCTAGAGGAGCAGATTGGTGTAACCCGAAGTCCCGGAAGGCTCTGTGTGCCAAGCAGCGCACTGCCAAA  
AAAGCTGGCCGTGAGTTCCCGAAGCTGATGCTGAGAAGCTCAAGCTGGTTACAGAGCAGCAGAGCAAGATCCAG  
AAACAACCTGGATCAGGTCCGGAACAGCAGAAGGAGCACATAATCTCATGGCAGAATATCGGAACAAGCAGCAG  
CAACAACAGCAGCAGCAGCAACAACAGCAACAGCACTCAGCTGTGCTGGCTCTCAGCCCTTCCAGAGTCCC  
CGGCTGCTACCAAGCTCCCTGGTCAGCTGCTCCCTGGCCATGGGCTGCAGCCACCACAGGGGCTCCGGGTGGG  
CAAGCCGAGGCTCTTCGCTGACCCCTGGGGGTATGGCACTACCTGGACAGCCTGGTGGCCCCCTTCTTAATACA  
GCTCTGGCCCCAACAGCAGCAACAGCAACATTCTGGTGGGGCTGGATCCCTGGCTGGCCCTTACAGGGGCTTCTTC  
CCTGGCAACCTTGCTCTTGAAGCCTCGGACCTGATTCAAGGCTTTTACAGGAAAGGCAGCTGCAGCTGCAGCAG  
CAACGTATGCAGCTGGCCAGAACTGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCACCTTCTAGGACAG  
GTGGCAATCCAGCAGCAACAGCAGCAGGGTCTTGAGTACAGACAAACCAAGCTCTGGGTCCCAAGCCCCAGGGC  
CTTATGCTCCAGCAGCCACCAAGGCTCCTGGTCCAGCAGCTGTCCCTCAACACCCAGGGGCCCTCACAGA  
ATGCTGGGGCTGCCAGGTGGCTGTGTTGAGCAGCAGCAGCCCTGGAGCTTTGGGGCCCCAGGGCCCTCACAGA  
CAGGTGCTTATGACCAAGTCCCGGTGCTCAGTTCCTCCAGCTGGCACAGCAGGGTCAGGGCCTTATGGGACAC  
AGGTGGTCACAGCCAGCAGCAGCAGCAACAACAGCACCAACAGCAAGGTCCATGGCAGGGCTGTCCCAT

3860/6881  
**FIGURE 3554D**

CTTCAGCAGAGTCTGATGTCACACAGTGGGCAGCCCCAACTGAGCGCTCAGCCCATGGGCTCTTTACAGCAGCTT  
CAGCAGCAGCAGCAGCTGCAACAGCAACAGCAACTTCAGCAGCAGCAGCAGCAGCAGCTACAACAGCAACAGCAA  
CTTCAGCAGCAACAGCTTCAACAGCAGCAACAGCAGCAGCAGCTTCAACAACAGCAGCAGCAACAGCTTCAACAG  
CAGCAACAGCAGCTACAACAGCAACAGCAACAACAACAGCAGCAGTTTCAACAGCAGCAGCAACAGCAGCAGATG  
GGCCTTTTAAACCAGAGTCGAACTTTACTGTCTCCTCAGCAACAACAGCAGCAGCAAGTGGCCTTGGCCCTGGC  
ATGCCAGCAAAGCCTCTTCAACACTTTTCTAGCCCTGGAGCCCTGGGTCCAACCTCCTCCTGACGGGCAAGGAA  
CAAAACACCGTAGACCCAGCCGTTTCTTCAAGAGGCCACTGAGGGGCCCTCTACACATCAGGGAGGGCCGTTAGCA  
ATAGGAACTACCCCTGAGTCAATGGCCACTGAACCAGGAGAGGTAAAGCCCTCACTCTCTGGGGACTCACAACCTC  
CTGCTTGTCACACCCAGCCCCAGCCTCAGCCAGCTCTCTGCAGCTGCAGCCACCTCTGAGGCTTCCAGGACAA  
CAGCAGCAGCAAGTTAGCCTGCTCCACACAGCAGGTGGAGGAAGCCATGGGCAGCTAGGCAGTGGATCATCTTCT  
GAGGCCCTCATCTGTGCCCCACCTGCTGGCTCAGCCCTCTGTTTCCCTAGGGGATCAGCCTGGGTCCATGACCCAG  
AACCTTCTGGGCCCCAACAGCCCATGCTAGAGCGGCCCATGCAAAATAATACAGGGCCACAACCTCCCAAACCA  
GGACCTGTCTCCAGTCTGGGCAGGGTCTGCCTGGGGTTGGAATCATGCCTACGGTGGGTGAGCTTCGAGCACAG  
CTCCAAGGAGTCTTGGCCAAAAACCCACAGCTGCGGCACCTTAAGTCTCAGCAGCAGCAGCAGCTACAGGCACTC  
CTCATGCAGCGGCAGCTGCAGCAGAGTCAGGCAGTACGCCAGACCCACCCCTACCAGGAGCCTGGGACCCAGACC  
TCTCCCTCCAGGGCCTCCTGGGCTGCCAACCTCAACTTGGGGGCTTCCCTGGACCACAGACAGGCCCCCTCCAG  
GAGCTAGGGGCAGGGCCTCGACCTCAGGGCCACCCCGGCTCCCTGCCCCACCAGGAGCCTTATCTACAGGACCA  
GTCTTGGCCCTGTCCATCCACACCTCCACCATCCAGCCCTCAAGAGCCAAAGAGACCTTCACAATTACCTTCC  
CCAGCTCCCAGCTTCCCACTGAGGCCAGCTCCCTCCCACCCATCCAGGGACCCCCAAACCTCAGGGGCCAACCC  
TTGGAGCCGCCTCCTGGGAGGGTCTCACCTGCTGCTGCCAGCTTGACAGATACCTTGTTTAGCAAGGGTCTGGGA  
CCTTGGGATCCCCAGACAACCTAGCAGAAACCCAGAAGCCAGAGCAGAGCAGCCTGGTACCTGGGCATCTGGAC  
CAGGTGAATGGACAGGTGGTGCCTGAGGCATCCCAACTCAGCATCAAGCAGGAACCTCGGGAAGAGCCATGTGCC  
CTGGGAGCCCAGTCAGTGAAGAGGGAGGCCAATGGGGAGCCAATAGGGGACCAGGAACCAGCAACCACCTCCTG  
CTGGCAGGCCCTCGCTCAGAAGCTGGGCATCTGCTCTTGCAAGAAGCTACTCCGGGCAAAGAATGTGCAACTCAGC  
ACTGGGCGGGGTCCGAGGGGCTGCGAGCTGAGATCAACGGGCACATTGACAGCAAGCTGGCTGGGCTGGAGCAG  
AACTACAGGGTACCCCCAGCAACAAGGAGGATGCAGCAGCAAGGAAGCCTTTGACACCGAAGCCCAAGCGGGTA  
CAGAAGGCAAGCGACAGGTGGTGAAGTCCCGAAAGAAGCTGCGGAAGGAGGACGGGGTACAGGGCCAGCGAGGCC  
TTGCTGAAACAGCTGAAACAGGAGCTGTCCCTGCTGCCCTTAACGGAGCCTGCTATCACCGCCAATTTTAGCCTC  
TTTGGCCCCCTTTGGCAGTGGCTGCCAGTCAATGGGCAGAGCCAGCTGAGGGGGCCTTTGGAAGTGGGGCGCTG  
CCCACTGGCCCTGACTACTATTCCAGCTGCTTACCAAGAATAACCTGAGTAACCCGCCGACACCACCTCGTCTG  
CTGCCCCCACCCACCCCCATCGGTGCAGCAGAAGATGGTGAATGGCGTCACCCCATCTGAAGAGCTGGGGGAG  
CACCCCAAGGATGCTGCCTCTGCCCGGATAGTGAAGGGCACTGAGGGATACTTCAGAGGTGAAGAGTCTAGAC  
CTGCTGGCTGCCTTGCTTACACCCCTCACAATCAGACTGAGGATGTCAGGATGGAGAGTGATGAGGATAGCGAT  
TCTCTGACAGCATTTGTGCCAGCTTCATCCCTGAGAGCATCTTGGGGGAGGAGGCCCTCGTTTCCCTCATCTG  
GGCTCAGGCCGGTGGGAGCAAGAGGACCGGGCCCTCTCCCTGTATCCCTCATTCCTCGGGCCAGCATCCCA  
GTCTTCCAGATACCAAACCTTATGGGGCCCTTGGCTGGAGGTCCCTGGAAAGCTGCCTGTCACAACCTTGGGAA  
AAGGGCAAAGGAAGTGAGGTGTCAGTCATGCTCACAGTCTCTGCTGCTGCAGCCAAGAACCTGAATGGCGTGATG  
GTGGCAGTGGCGAGCTGCTGAGCATGAAGATCCCAACTCCTATGAGGTGCTGTTCCAGAGAGCCCGCCCGG  
GCAGGCACTGAGCCAAAGAAGGGGAAGCTGAGGGTCCCTGGTGGGAAGGAAAAGGTCTGGAAGGCAAGAGCCCA  
GACACTGGCCCTGATTGGCTGAAGCAGTTTGATGTCAGTGTGCTGCTTACCTGAAGAGCCAACTAGACATC  
TTGAGCCTCCTGAAACAGGAGAGCCCGCCCCAGAGCCACCCACTCAGCACAGCTATACCTACAATGTCTCCAAT  
CTGGATGTGCGACAGCTCTCGGCCACCTCCTGAAGAACCCTCCCGCCCCCTTCCCCCTTGGCACCTTCTCCT  
GCCAGTCCCCCTACTGAGCCCTTGGTTGAACCTTCCACCGCAACCCTTGGCTGAGCCACCCGTCCTCACCTCTG  
CCACTGGCCTCATCCCTGAATCAGCCCGACCCACCCGTCGCCCGCCCCCTGAAGAAGGTGAAGATTCCCGT  
CCTCCTCGCCTCAAGAAATGGAAGGAGTGCCTGGAAGCGGCTTCGGCTGCTGCTGACCATCCAGAAGGGCAGT  
GGGCGGCAGGAGGATGAGCGGGAAGTGGCAGAGTTTATGGAGCAGCTTGGCACAGCCTTGGACCTGACAAGGTA  
CCGCGAGACATGCGTCTGCTGTTTCTGTCTATGAGGAGGTGACGGGGCCACTGATGGGCCTGCCGCTGCTG  
AACCTGGACCTGGACCTGTGGGTGCACCTCAACTGTGCCCTTGGTCCACGGAGGTGATGAGACCCAGGGCGGG

3861/6881

**FIGURE 3554E**

GCACTGATGAATGTGGAGGTTGCCCTGCACCGAGGACTGCTAACCAAGTGCTCCCTGTGCCAGCGAACTGGTGCC  
ACCAGCAGCTGCAATCGCATGCGTTGCCCAATGTCTACCATTTTGCTTGTGCCATCCGTGCCAAGTGCAATGTTT  
TTCAAGGACAAGACCATGCTGTGTCCAATGCATAAGATCAAGGGGCCCTGTGAGCAAGAGCTGAGCTCTTTTGCT  
GTCTTCCGGCGGGTCTACATTGAGCGGGACGAGGTGAAGCAAATCGCTAGCATCATTACGCGGGGAGAACGGCTG  
CACATGTTCCGTGTGGGGGGCCTTGTGTTCCACGCCATCGGACAGCTGCTGCCTCACCAGATGGCTGACTTTCAT  
AGTGCCACTGCCCTCTATCCCGTGGGCTACGAGGCCACGCGCATCTATTGGAGCCTCCGCACCAACAATCGTCGC  
TGCTGCTATCGCTGTTTCTATTGGTGAGAACAACGGGCGGGCGGAGTTTGTAATCAAAGTCATCGAGCAGGGCCTG  
GAGGACCTGGTCTTCACTGACGCCTCTCCCCAGGCCGTGTGGAATCGCATCATTGAGCCTGTGGCTGCCATGAGA  
AAAGAGGCTGACATGCTGCGACTCTTCCCTGAGTATCTGAAGGGCGAGGAGCTCTTTGGGCTGACGGTGCAATGCC  
GTGCTTCGCATAGCTGAATCACTGCCCCGGGTGGAGAGCTGTCAAACTATTTATTCGCTATGGGCGCCACCCC  
CTTATGGAGCTGCCACTCATGATCAACCCCACTGGCTGTGCCCGATCAGAGCCTAAAATCCTCACACACTACAAA  
CGGCCCCATACCCTGAACAGCACCAGCATGTCTAAGGCATATCAGAGCACCTTCACAGGCGAGACCAACACCCCC  
TACAGCAAGCAGTTTGTGCACTCCAAGTCATCTCAGTACCGGCGGGCTGCGCACCGAATGGAAGAACAACGTGTAC  
CTGGCTCGCTCCCGTATCCAGGGCCTGGGGCTCTATGCAGCCAAGGACCTAGAAAAGCACACAATGGTTATCGAG  
TACATTGGCACCATCATTGGAACGAGGTGGCCAACCGGCGGGAGAAAATCTACGAAGAGCAGAATCGAGGCATC  
TACATGTTCCGAATAAACAATGAACATGTGATTGATGCTACGTTGACCGGCGGCCCTGCCAGGTACATTAACCAT  
TCCTGTGCCCCTAACTGTGTGGCCGAAGTCGTGACATTTGACAAAGAGGACAAAATCATCATCATCTCCAGCCGG  
CGAATCCCCAAAGGAGAGGAGCTAACCTATGACTATCAGTTTGATTTTGAGGACGATCAGCACAAGATCCCCCTGC  
CACTGTGGAGCCTGGAATTGTCGGAAATGGATGAACTAA

3862/6881  
**FIGURE 3555**

GC GCCCTTAAAGATGGTGAGGGGGCTCATGCTCTGAGTAGAAGGTGGTGACCTCCAGGAGCGGTGGGATGATGAG  
GGCCCGGGCGCCTCTTGCAATGGAGACGGTCATTTCTTCAGATAGCTCCCCAGCTGTGGAAAATGAGCATCCTCA  
AGAGACCCCAAGATCCAACAATAGCGTGTATACCTTCCTTCATGAAGTCTCATCGCTGCTATGACCTGATTCCCAC  
AAGCTCCAAATTGGTTGTATTTGATACGTCCTTCAGGTGAAGAAAGCTTTTTTTGCTTTGGTGACTAACGGTGT  
ACGAGCTGCCCCTTTATGGGATAGTAAGAAGCAAAGTTTTGTGGGCATGCTGACCATCACTGATTTCATCAATAT  
CCTGCACCGCTACTATAAATCAGCCTTGGTACAGATCTATGAGCTAGAAGAACACAAGATAGAACTTGGAGAGA  
GGTGTATCTCCAGGACTCCTTTAAACCGCTTGTCTGCATTTCTCCTAATGCCAGCTTGTTTGATGCTGTCTCTTC  
ATTAATTGGAACAAGATCCACAGGCTGCCAGTTATTGACCCAGAATCAGGCAATACTTTGTACATCCTCACCCA  
CAAGCGCATTCTGAAGTTCCTCAAATTGTTTATCACTGAGTTCCCCAAGCCAGAGTTCATGTCCAAGTCTCTGGA  
AGAGCTACAGATTGGCACCTATGCCAATATTGCTATGGTTCGCACTACCACCCCGTCTATGTGGCTCTGGGGAT  
TTTTGTACAGCATCGAGTCTCAGCCCTGCCAGTGGTGGATGAGAAGGGGGCGTGGTGGACATCTACTCCAAGTT  
TGATGTTATCAATCTGGCAGCAGAAAAGACCTACAACAACCTAGATGTATCTGTGACTAAAGCCTTGCAACATCG  
ATCACATTACTTTGAGGGTGTCTCAAGTGCTACCTGCATGAGACTCTGGAGACCATCATCAACAGGCTAGTGGA  
AGCAGAGGTTCAACGACTTGTAGTGGTGGATGAAAATGATGTGGTCAAGGGAATTGTATCACTGTCTGACATCCT  
GCAGGCCCTGGTGCTCACAGGTGGAGAGAAGAAGCCCTGAGCTGGGGGAAGGGGTGATGCAGCACCAGGGGATAT  
GCCCACTCACTGCCTGCTGGAAGCTCTGTGGGAATCAGATGAACTTGAGGGAATTGTGACTCTGTTCCCTGTT  
CAGGGTCCCCTGCCCTTCTATCTGGGAGCTAGGGAAGGTATGGGGGAGGAAAGAGAATGGATTATAGCTACCCT  
TACCCTCACACATACACTTGAAAAAATTTTCAGCCTAGCCAGTTCTAGCCCTGTCCTCTTAGATATATCCCCCT  
TTCTGGGTGAATATAGGCTCTGTGCCTCTCAGACAAATTCTGATCTCTAAGAGATCCCCAGACCTCACTTGCCT  
CTGCCTCCATCTTGCCCTGATTCAACCCTAAGATAATAGCACAACAAAATTCTTCATAAAGATATTTTATTCA  
CCTGTTCCGTGCTATATGGAGGAGGCCAAGTCCATTTAGTGACATTTCTTCCATAATGTGAGTGGGGAGGATTG  
TGG

3863/6881  
**FIGURE 3556**

METVISDSSPAVENEHPQETPESNNSVYTSFMKSHRCYDLIPTSSKLVVFDTSLQVKKAFFALVTNGVRAAPLW  
DSKKQSFVGMLTITDFINILHRYYKSALVQIYELEEHKIETWREVYLQDSFKPLVCISPNASLFDVSSLI RNKI  
HRLPVIDPESGNTLYILTHKRILKFLKLFITEFPKPEFMSKSLEELQIGTYANIAMVRTTTPVYVALGIFVQHRV  
SALPVVDEKGRVVDIYSKFDVINLAAEKTYNNDVSVTKALQHRSHYFEGVLKCYLHETLETIINRLVEAEVHRL  
VVVDENDVVKGIVSLSDILQALVLTGGEKKP

3864/6881

**FIGURE 3557**

CTCGACTCTTAGCTTGTGCGGGACGGTAACCGGGACCCGGTGTCTGCTCCTGTCGCCTTCGCCTCCTAATCCCTA  
GCCACTATGGTGATGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAGCTCTA  
CTGCCTGGAACACGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGACTCCTT  
CAACACCTTCTTCAGTGAGACGGGCGCTGCACCTACCGCCAGCTCTTCCACCCTGAGCAGCTCATCACAGGCAAG  
GAAGATGCTGCCAATAACTATGCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTTGTGTTGGACCGA  
ATTGCAAGCTGGCTGACCAGTGACCGGTCTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAGTGGT  
TCTGGGTTACCTCCCTGCTCATGGAACGTCTCTCAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCATT  
TACCCAGCACCCAGGTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCTGGAG  
CACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGTCGTAGAAACCTCGATATCGAGCGC  
CCAACCTACACTAACCTTAACCGCCTTATTAGCCAGATTGTGTCCTCCATCACTGCTTCCGTCATCTCTGCTGAG  
AAAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAACCAGATGGTGAAA  
TGTGACCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAAT  
GCTGCCATTGCCACCATCAAACCAAGCGCAGCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGC  
ATCAACTACCAGCCTCCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGCGAGTTTTAGAGGCCCCGTGAAGATA  
TGGCTGCCCTTGAGAAGGATTATGAGGAGGTTGGTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAGGAGAGG  
AATACTAATTATCCATTCTTTTGGCCCTGCAGCATGTCATGCTCCCAGAATTTAGCTTCAGCTTAACTGACAG  
ACGTTAAAGCTTTCTGGTTAGATTGTTTTCACTTGGTGATCATGTCTTTTCCATGTGTACCTGTAATATTTTCC  
ATCATATCTCAAAGTAAAGTCATTAACATC

3865/6881  
**FIGURE 3558**

MERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYTNLN  
RLISQIVSSITASVISAEKAYHEQLSVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIK  
TKRSIQFVDWCPTGFKVGINYQPPTVVPGGDLAKASFQRPVKIWLPLRRIMRRLVWILLKERVRRKKERNINYPFL  
LALQHVMLPEFQLQLN



3866/6881  
**FIGURE 3559**

CTCCAGCAGCACCCGAGAGGGTCAGGAGAAAAGCGGAGGAAGCTGGGTAGGCCCTGAGGGGCCTCGGTAAGCCAT  
CATGACCACCCGGCAAGCCACGAAGGATCCCCCTCCTCCGGGTGTATCTCTACCCCTAGCAAGATTCCGGTACG  
CTCTCAGAAACGCACGCCTTTCCCCACTGTTACATCGTGCCTGTTGACAGGAGAACCAAGATCCAAGGAGATG  
GGTGACAGAAACCACCGCTCAATATTCAACGCCCCCTCGTTGATTACGACAGCCCCAGGCCGAAAGCCAGGCACCA  
GGCAGAGACATCACAAAGATTGGTGGGGATCAGTCAGCCTCGGAACCCCTTGAAGAGCTCAGGCCTAGCCCTAG  
GGGTCAAAATGTGGGGCCTGGGCCCCCTGCCCAGACAGAGGCTCCAGGGACCATAGAGTTTGTGGCTGACCCTGC  
AGCCCTGGCCACCATCTGTCTAGGTGAGGGTGTGAAGAGCTGTACCTGGGGCGCCAGCCTAGTCTGGCTAAAAG  
AGTACTGGTTCGAGGAAGTCAGGGAGGCACCAACCAGAGGGTCCAGGGTGTTCGGGCCTCTGCATATTTGGCCCC  
CAGAACCCCCACCCACCGACTGGACCCTGCCAGGGCTTCTGTCTCTTAGGCTGGAGGGACCAAGGACCTCGAGG  
CCGGACATTGTGTCCCAGAGGCTACAGGCTCTGATTTACCTTCAGGACCTTCTTTTACCCCTTCCACTCGCCC  
CAGTTTCCAGGAGCTAAGAAGGGAGACAGCTGGCAGCAGCCGACTTCAGTGAGCCAGGCCTCAGGATTGCTCCT  
GGAGACCCCAAGTCCAGCCTGCTTTCTCTCTTCTTAAAGGAGAACGCGAGGTTGTCACTCACTCAGATGAAGGAGG  
TGTGGCCTCTCTTGGTCTGGCCCAGCGAGTACCATTAAAGAGAAAACCGAGAAATGTCACATACCAGGGACAGCCA  
TGACTCCCACCTGATGCCCTCCCCTGCCCTGTGGCCCAGCCCTTGCCCTGGCCATGTGGTGCCATGTCCATCACC  
CTTTGGACGGGCTCAGCGTGTACCCTCCCCAGGCCCTCCAACCTCTGACCTCATATTCAGTGTTCGGGCGTCTCAC  
CGTTCAACCTAAAACCCGGTTACACCCATGCCATCAACCCCCAGAGTTCAGCAGGCCCAAGTGCGTGCCTGGTGT  
CTCCCCCTCAGTCCTGCTCTGAAGATCCTGCCCTGCCCTGGGAGCAGGTTGCCGTCCGGTTGTTTGACCAGGAGAG  
TTGTATAAGGTCACTGGAGGGTTCTGGGAAAACACCGGTGGCCACTCCTTCTGGACCCCACTCTAACAGAACCCC  
CAGCCTCCAGGAGGTGAAGATTCAACGCATCGGTATCCTGCAACAGCTGTTGAGACAGGAAGTAGAGGGGCTGGT  
AGGGGGCCAGTGTGTCCCTCTTAATGGAGGCTCTTCTCTGGATATGGTTGAACTTCAGCCCTGCTGACTGAGAT  
TTCTAGAACTCTGAATGCCACAGAGCATAACTCTGGGACTTCCACCTTCTGGACTGTTAAAACACTCAGGGCT  
GCCAAAGCCCTGTCTTCCAGAGGAGTGCGGGGAACACAGCCCTGCCCTCCGGCAGAGCCTGGGCCCCCAGAGGC  
CTTCTGTAGGAGTGAGCCTGAGATACCAGAGCCCTCCCTCCAGGAACAGCTTGAAGTACCAGAGCCCTACCCTCC  
AGCAGAACCCAGGCCCTAGAGTCCTGCTGTAGGAGTGAGCCTGAGATACCGGAGTCCTCTCGCCAGGAACAGCT  
TGAGGTACCTGAGCCCTGCCCTCCAGCAGAACCCAGGCCCTAGAGTCCTACTGTAGGATTGAGCCTGAGATACC  
GGAGTCCTCTCGCCAGGAACAGCTTGAGGTACCTGAGCCCTGCCCTCCAGCAGAACCCGGGCCCCCTTCAGCCCAG  
CACCCAGGGGCAGTCTGGACCCCCAGGGCCCTGCCCTAGGGTAGAGCTGGGGGCATCAGAGCCCTGCACCCTGGA  
ACA TAGAAGTCTAGAGTCCAGTCTACCACCCTGCTGCAGTCAGTGGGCTCCAGCAACCACCAGCCTGATCTTCTC  
TTCCCAACACCCGCTTTGTGCCAGCCCCCTATCTGCTCACTCCAGTCTTTGAGACCCCCAGCAGGCCAGGCAGG  
CCTCAGCAATCTGGCCCCCTCGAACCTAGCCCTGAGGGAGCGCCTCAAATCGTGTTTAACCGCCATCCACTGCTT  
CCACGAGGCTCGTCTGGACGATGAGTGTGCCTTTTACACCAGCCGAGCCCCCTCCCTCAGGCCCCACCCGGGTCTG  
CACCAACCCTGTGGCTACATTACTCGAATGGCAGGATGCCCTGTGTTTCAATCCAGTTGGTTCTGCTGCCCCCA  
GGGCTCTCCATGATGAGACAACCACTCCTGCCCTGCCGTACTTCTTCTTTAGCCCTTATTTATTGTGGTCTG  
CCCATGGGACTGGGAGCCGCCACTTTTGTCTCAATAAAGTTTCTAAAGTA

3867/6881  
**FIGURE 3560**

TCCAGACCAACCTGGTGCCCTATCCCCGCATCCACTTCCCTCTGGCCACATATGCCCCGTGCATCTCTGCTGAGA  
AAGCCTACCATGAACAGCTTTCTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAACCAGATGGTGAAAT  
GTGACCCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAATG  
CTGCCATTGCCACCATCAAGACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGCA  
TCAACTACCAGCCTCCCACTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAGCTGTGTGCATGCTGAGCA  
ACACCACAGCCATTGCTGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAACGTGCCTTTG  
TTCACCACCCACACCACCTGGAGCACTCTGATTGTGCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGT  
CGTAGAAACCTCGATATCGAGCGCCCAACCTACACTAACCTTAACCGCCTTATTAGCCAGATTGTGTCTCCATC  
ACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTTGACCTGACAGAATTCCAGACCAACCTGGTGCCCTACCCC

3868/6881  
**FIGURE 3561**

AATACATGGCTTGCTGCCTGTTGTACCGTGGTGACGTGGTTCCCAAAGATGTCAATGCTGCCATTGCCACCATCA  
AGACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGCTTCAAGGTTGGCATCAACTACCAGCCTCCCA  
CTGTGGTGCCTGGTGGAGACCTGGCCAAGGTACAGAGAGCTGTGTGCATGCTGAGCAACACCACAGCCATTGCTG  
AGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCCAAACGTGCCTTTGTTCACTGGTACGTTGGGG  
AGGGGATGGAGGAAGGTGAGTTTTTCAGAGGCCCGTGAGGACATGGCTGCCCTTGAGAAGGATTATGAGGAGGTTG  
GTGTGGATTCTGTTGAAGGAGAGGGTGAGGAAGAAGGAGAGGAATACTAAAGTTAAAACGTCACAAAGGTGCTGC  
TTTTACAGGGAAGCTTATTCTGTTTTAAACATTGAAAAGTTGTGGTCTGACATGAATGCTTTGTTACAGACCCAA  
GCTGTCCATTTCTGTGATGGGTTTTGAATAAAGTATTCCC

3869/6881  
**FIGURE 3562**

CTCCTTGACTCGAACCTTGGACAGTGGCATTGGGACCTTCCCACCCCCAGACCATGGTAGCAGTGGGACCCCCAG  
CAAGAATCTTCTAAGACCAAGCCACC GCGGCTGGATCCCCACCTGGGGTACCCCCAGCTCGGCCCCACCCCT  
TACC AAAGTCCCCCGCGCGCCACACACTGGAGCGGGAGGTGCCAGGCATAGAGGAGCTGCTGGTGAGTGGGCG  
GCACCC CAGCATGCCAGCCTTCCCTGCACTGCTACCCGCTGCTCCGGGCCACCGGGGCCATGAGACCTGTCCTGA  
TGATCCCTGTGAAGACCCAGGCCCCACCCCTCCTGTCCAGCTGGCCAAGA ACTGGACCTTCCCCAATACTAGGGC  
AGCCGGCAGCTCCTCGGACCTCTCATGTGCCCCACCCGACA ACTGGAGGGGCTGCCAGGACCCCCATGGCCCT  
GCCCCGTGGACCGGAAGCGAAGCCAGGAGCCAGCCGCGCTCCCTACGCCCCAGGGGCCACCTTTCGGGGGTAG  
CCGCACCC CAGCACTTCGGACATGGCCGAGGAAGGCAGAGTGGCCAGCGGGGGCCCCCAGGGCTGGAGACCTC  
GGAGTCTCTCAGTGACTCACTCTACGACTCGCTGTCTCTTGTGGGAGTCAGGGCTGAGGGGCTGCGCCACGCCA  
CGGCCCCGCTGGAGCTGGGGACCACAGACTGGACCGGCTCTCTCATGCCAGCCCCCGGAGACGGGGACCCCTC  
CCTGAAGGGACCAAGGAGGCAGGTGGATAAGAAGGTGAAAAGGGGGTCCCTGGCACACCCACCACCCACTGCTT  
CGGCGGATGAGATGACCGTGCTCAGCTCAGGGAGAGACCCGCCCCCTTGGTCCCTTCTCTACCCAGAGTAAGGCT  
CTTCCTGGAAGGGACTGGGGGTAAAGGCCACTGTGTCGCAGCCCCCAGTCCCTACTTCAGGCTGAGCCATCTT  
GTGGTGCTGGGCTTCCTGCCCCGAAGCCCTCGCGAGGCCCTCCTGGAGGCCCCCGTGCTGGTGGA

3870/6881  
**FIGURE 3563**

MFMGAGDAPLGSRPGHPHSSSQVKSQIGPPSPGEAQGPLLPSPARGLKFLKLPPTSEKSPSPGGPQLSPQLPR  
NSRIPCRNSGSDGSPSPLLARRGLGGGELSPEGAQGLPTSPSPCYTTPDSTQLRPPQSALSTTLSPGPVVSPCYE  
NILDLSRSTFRGPSPEPPPSPLQVPTYQLTLEVPAPEVLRSPGVPPSPCLPESYPYGSPQEKSLDKAGSESPH  
PGRRTPGNSSKKPSQSGRRPGDPGSTPLRDRLAALGKLKTGPEGALGSEKNGVPARPGIEKTRGPGKSGESAGD  
MVPSIHRPLEQLEAKGGIRGAVALGTNSLKQQEPGLMGDPGARVYSSHSMGARVDLEPVSPRSCLTKVELAKSRL  
AGALCPQVPRTPAKVPTSAPSLGKPNKSPHSSPTKLPSKSPTKVVP RP GAPLVTKESPKPKDKGKGPWADCGSTT  
AQSTPLVPGPTDPSQGPEGLAPHS AIEEKVMKGIEENVLR LQGQERAPGAEVKHRNTSSIASWFGLKKS KLPALN  
RRTEATKNKEGAGGGSPLRREVKMEARKLEAESLNISKLMKAEDLRRALEEEKAYLSSRARPRPGGPAPGPNTG  
LGQVQQLAGMYQGADTFMQQLNRVDGKELPSKSWREP KPEYGDFQPVSSDPKSPWPACGPRNGLVGPLQGC GK  
PPGKPSSEPGRREEMPSEDSLAEPVPTSHFTACGSLTRTLDSGIGTFPPPDHGSSGTPSKNL PKTKPPRLDPPPG  
VPPARPPPLTKVPRRAHTLEREVPGIEELLVSGRHPSMPAFPALLPAAPGHRGHETCPDDPCEDPGPTPPVQLAK  
NWTFPNTRAAGSSSDPLMCPPRQLEGLPRTPMVRIAAEERERTREQEGVMWGDQFLQ

3871/6881  
**FIGURE 3564**

AGAGTGGAGACTGCTGCACGGACTCTGGAACCATGAACATATTTGATCGAAAGATCAACTTTGATGCGCTTTTAA  
AATTTTCTCATATAACCCCGTCAACGCAGCAGCACCTGAAGAAGGTCTATGCAAGTTTGGCCCTTTGTATGTTTG  
TGGCGGCTGCAGGGGCTATGTCCATATGGTCACCTCATTTCATTGAGGCTGGCCTGCTGTCTGCCTTGGGCTCCC  
TGATATTGATGATTTGGCTGATGGCAACACCTCATAGCCATGAAACTGAACAGAAAAGACTGGGACTTCTTGCTG  
GATTTGCATTCTTACAGGAGTTGGCCTGGGCCCTGCCCTGGAGTTTGTATTGCTGTCAACCCAGCATCCTTC  
CCACTGCTTTTCATGGGCACGGCAATGATCTTTACCTGCTTCACCTCAGTGCACCTCTATGCCAGGCGCCGTAGCT  
ACCTCTTTCTGGGAGGTATCTTGATGTGACCCCTGAGCTTGTTGCTTTTGTCTTCCCTGGGGAATGTTTTCTTTG  
GATCCATTTGGCTTTTCCAGGCAAACCTGTATGTGGGACTGGTGGTCATGTGTGGCTTCGTCCTTTTGTACTC  
AACTCATTATTGAAAAGGCCGAACATGGAGATCAAGATTATATCTGGCACTGCATTGATCTCTCTTAGATTTCA  
TTACTGTCTTCAGAAAACCTCATGATGATCCTGGCCATGAATGAAAAGGATAAGAAGAAAGAGAAGAAATGAAGTG  
ACCATCCAGCCTTTCCCAATTAGACTTCCTCTCCTTCCACCCCTCATTTCCTTTTGCACACATTACAGGTGGTG  
TGTTCTGTGATAATGAAAAGCATCAGAAAAGCTTTTGTACTTTGTGGTTTCCCTCTATTTTGAATTTTTTGATCAA  
AAAACGATTAGCAGAATATAGTTTGGAGTTTGGCTTCATCTTCCCTGGGGTTCCCTCACTCCCTTTTTTGTCAA  
CCCCATCTGTAGCCTCTCTCTCTACTCAGGCAGTCGACCCGCCACGATGAGAAGTGGGACCAGCAGAGGGCGCCA  
ACTTCAGGAGTCCGCTTTCCACCAGGCTTCATTACCCAGTGGACCTGAAGTGTTTGGTAGAGCCACCCGGCCC  
TTCCTTCCTCATTGTTGTTTGGTATGCGCACAGTTCCTGTGGGACTGGGCCGTGAGTTTTCCATTGGAAAGAAGT  
TCAGTGGTCCCATTGTTAACTCAGCCTCAAATCTCAACTGTCAGGCCCTACAAAGAAAATGGAGAGCCTCTTCTG  
GTGGATGCTTTGCTCCCTCTGAGCTGCCCATGCTGGTCTGGCAAACACACCTTTCTGCTTTGCCTTCACAAAAGT  
AATGTGTTCCCTTTCCACCCCTTGCCCTGACCCTCAGGAGTGCAGCCTGCTTCCATCCATGGGTGGGAAGACTTC  
AGCACAAAGGAAAGACTAATTCTTGTCAGGCATTTTTGAAAAGGCTGATTATGTGTATCAAGGTACAGCATCGTA  
GGGTTCCTTAACTTGCCCTGTTTTTGTTTTTTAGTTTGTATCCCTTACTGAGCGGCTCTACTAGGTGGC  
TGTGATTAAATGTCCCAAGCAAGGATAGGGAAGGGGAATGGTTGAGCCTCTGGAGATCATTGTAACCAATCCTGC  
CAGACCTGTTTGGGGCAGTGGGGAGCAAACCTAGATAAGGACCTGTTTGGGGCAGCAGGGAGCAAATCTCCTTT  
AACAACCAAGCAGTTCTCATTACATCAACAGAGCGAGGCTGTGATAACTTAGGAGGCAGCAATCCTAATAGTC  
CTTCAGTGCATTTTAGTCTGTCTCCAAGTGGACACCAAGTAGGTAGTGTCAAGCCAGAGATTGGGGCAGTAGATA  
AATGTTCATTTTACTGATGCACCTTAGTTTTTGGTCTGTTACCTGTTTTCCAGAAATTTGTGGCCTTTTAGGCGG  
GAGTTAGGCGACCAAACCAAGTGAAGAGCCCAATCCCTGCAGTTTTGTGGCTCAAGTGTGGGTGGACAGTCTAA  
TGGGATCTCCAGCTCCTTCTGTGGGCTGCCACAGACAGCTACCCCAAGGGTCAATGTTGGGAGTGGTTGT  
GGCTCTGAGCTGCTCTACAGAGCTTCAGTGTGAGAGGATCGAGCCATTGAAAGCTCATTACCAGTAGGACATAAT  
TTTTGGCTCTCCCTATTACAAACCAAGTGCACAGTTTGACACAGTGGCCTCAGGTTACAGTGCACCATGTCACTG  
TGCTATCCTACGAAATCATTGTTTCTAAGTTGTGTTTATTCCTGGAGTGACATGCCACCCGAATGGCTCACTT  
TCACTGAGGATGCTGTCTCTGATTTAGCTGCTGCCTCCAGCCTCTGGCTTGAGAACTTACTAAAGGCACCTCCT  
TCTGTAAACCCCTGTTAACTCTCCATAAATTTGGTGATTCTCTGCTAGGCCTAAGATTTTGAGTTAACATCTC  
TTGAAGCCAAACTCCACCTTCTGTGCTTTTTGCTTGGGATAATGGAGTTTTCTTTAGAAACAGTGCCAAGAATG  
ACAAGATATTAAAAA

3872/6881  
**FIGURE 3565**

MNIFDRKINF DALLKFSHITPSTQQHLKKVYASFALCMFVAAAGAYVHVMVTHFIQAGLLSALGSLIIMIWL MATP  
HSHETE QKRLG LLAGFAFLTGVGLGPALEFCIAVNPSILPTAFMGTAMIFTCTLSALYARRRSYFLGGILMSA  
LSLLLLSS LGNVFFGSIWLFQANLYVGLVVMCGFVLFDTQLIEKAHGDQDYIWHCIDLFLDFITVFRKLMMIL  
AMNEKDKKKEKK

3873/6881  
**FIGURE 3566**

GCGAAGTGAAGGGTGGCCAGGTGGGGCCAGGCTGACTGAATGTATCTCCTAGCTATGGACTAAATAATACATGG  
GGGGAAATAAACAGTATTTCATGAGGGTGAAAATGTGACCCAGCAGGAAAATTACAACATTTTTCAATTGACGTT  
GAATAGGATGAGTCATGGAATTTAAGTGATTTACTGAAGATTATACTACTGGTAGATAGAAGAGCTAAAGAAAGA  
TGGATACTATGATGCTGAATGTGCGGAATCTGTTTGAGCAGCTTGTCGCCGGGTGGAGATTCTCAGTGAAGGAA  
ATGAAGTCCAATTTATCCAGTTGGCGAAGGACTTTGAGGATTTCCGTAAAAAGTGGCAGAGGACTGACCATGAGC  
TGGGGAAATACAAGGATCTTTTGATGAAAGCAGAGACTGAGCGAAGTGCTCTGGATGTTAAGCTGAAGCATGCAC  
GTAATCAGGTGGATGTAGAGATCAAACGGAGACAGAGACTGAGGCTGACTGCCAAAAGCTGGAACGACAGATTCT  
AGCTGATTTCGAGAGATGCTCATGTGTGACACATCTGGCAGCATTCAACTAAGCGAGGAGCAAAAATCAGCTCTGG  
CTTTTCTCAACAGAGGCCAACCATCCAGCAGCAATGCTGGGAACAAAAGACTATCAACCATTGATGAATCTGGTT  
CCATTTTATCAGATATCAGCTTTGACAAGACTGATGAATCACITGGATTGGGACTCTTCTTTGGTGAAGACTTTCA  
AACTGAAGAAGAGAGAAAAGAGGCGCTCTACTAGCCGACAGTTTGTGATGGTCCCCCTGGACCTGTAAAGAAAA  
CTCGTTCCATTGGCTCTGCAGTAGACCAGGGGAATGAATCCATAGTTGCAAAAACCTACAGTGACTGTTCCCAATG  
ATGGCGGGCCCATCGAAGCTGTGTCCACTATTGAGACTGTGCCATATTGGACCAGGAGCCGAAGGAAAAACAGGTA  
CTTTACAACCTTGGAACAGTGACTCCACCOTGAACAGCAGGCAGCTGGAGCCAAGAACTGAGACAGACAGTGTGG  
GCACGCCACAGAGTAATGGAGGGATGCGCCTGCATGACTTTGTTTCTAAGACGGTTATTAAACCTGAATCTCTGTG  
TTCCATGTGGAAAGCGGATAAAATTTGGCAAATATCTCTGAAGTGTGAGACTGTCTGTGGTCTCTCATCCAG  
AATGTCGGGACCGCTGTCCCCCTCCCTGCATTCTACCTGATAGGAACACCTGTCAAGATTGGAGAGGGAATGC  
TGGCAGACTTTGTGTCCCAGACTTCTCCAATGATCCCCCTCCATTGTTGTGCATTGTGTAAATGAGATTGAGCAAA  
GAGGTCTGACTGAGACAGGCCTGTATAGGATCTCTGGCTGTGACCGCACAGTAAAGAGCTGAAAGAGAAATTC  
TCAGAGTGAAGAACTGTACCCCTCCTCAGCAAAGTGGATGATATCCATGCTATCTGTAGCCTTCTAAAGACTTTC  
TTCGAAACCTCAAAGAACCCTTCTGACCTTTCGCCTTAACAGAGCCTTTATGGAAGCAGCAGAAATCACAGATG  
AAGACAACAGCATAGCTGCCATGTACCAAGCTGTTGGTGAAGTGGCCAGGCCAACAGGGACACATTAGCTTTCC  
TCATGATTCACTTGACAGAGTGGCTCAGAGTCCACATACTAAATGGATGTTGCCAATCTGGCTAAAGTCTTTG  
GCCCTACAATAGTGGCCCATGCTGTGCCCAATCCAGACCCAGTGACAATGTTACAGGACATCAAGCGTCAACCCA  
AGGTGGTTGAGCGCCTGCTTTCCCTTGCCCTCGGAGTATTGGAGTCAGTTTCATGATGGTGGAGCAAGAGAACATTG  
ACCCCTTACATGTCAATTGAAAACCTCAAATGCCTTTTCAACACCACAGACACCAGATATTAAAGTGAGTTTACTGG  
GACCTGTGACCACTCCTGAACATCAGCTTCTCAAGACTCCTTCATCTAGTTCCCTGTACAGAGAGTCCGTTCCA  
CCCTCACCAGAAGAACTCCTAGATTTGGGAGCAAAAGCAAGTCTGCCACTAACCTAGGACGACAAGGCAACTTTT  
TTGCTTCTCCAATGCTCAAGTGAAGTCACATCTGCCTGTTACTTCCCAGCATTGACTGACTATAAGAAAGGACAC  
ATCTGTACTCTGCTCTGCAGCCTCCTGTACTCATTACTACTTTTAGCATTCTCCAGGCTTTTACTCAAGTTTAAT  
TGTGCATGAGGGTTTTATTAAGAACTATATATATCTCCCCTTCCCTTCTCCTCAAGTCACATAATATCAGCACTTTG  
TGCTGGTCATTGTTGGGAGCTTTTAGATGAGACATCTTTCCAGGGGTAGAAGGGTTAGTATGGAATTGGTTGTGA  
TTCTTTTTGGGGAAGGGGGTTATTGTTCCCTTTGGCTTAAAGCCAAATGCTGCTCATAGAATGATCTTTCTCTAGT  
TTCATTTAGAAGTGAATTCCTGTGAGACAATGACAGAAACCTACCTATCTGATAAGATTAGCTTGTCTCAGGGTG  
GGAAGTGGGAGGGCAGGGCAAGAAAGGATTAGACCAGAGGATTAGGATGCCTCCTTCTAAGAACCAGAAGTTC  
TCATTCCCCATTATGAAGTGAAGCTATAATATGGAGCTTTTCAAAAAATGGGATGCATTGAGGACAGAACTAGTGA  
TGGGAGTATGCGTAGCTTTGATTTGGATGATTAGGTCTTTAATAGTGTGAGTGGCACAACTTGTAATGTGAA  
AGTACAACCTCGTATTTATCTCTGATGTGCCGCTGGCTGAACCTTTGGGTTCAATTTGGGGTCAAAGCCAGTTTTCT  
TTTAAATTTGAATTCATTCTGATGCTTGGCCCCATACCCCAACCTTGTCCAGTGGAGCCCACTTCTAAAGGT  
CAATATATCATCCTTTGGCATCCCACTAACAATAAGAGTAGGCTATAAGGGAAGATTGTCAATATTTTGTGGT  
AAGAAAAGCTACAGTCATTTTTCTTTGCACCTTTGGATGCTGAAATTTTTCCCATGGAACATAGCCACATCTAGA  
TAGATGTGAGCTTTTTCTTCTGTTAAATTTATCTTAATGTCTGTAAACGATTTTCTTGTAGAATGTTTGA  
CTTCGTATTGACCCTTATCTGTAAACACCTATTTGGGATAATATTGGAAAAAAGTAAATAGCTTTTTTCAAAA  
TGAAAAA



3874/6881  
**FIGURE 3567**

MDTMMLNVRNLFEQLVRRVEILSEGNEVQFIQLAKDFEDFRKKWQRTDHELKGYKDLLMKAETERSALDVKLKHA  
RNQVDVEIKRRQRAEADCEKLERQIQLIREMLMCDTSGSIQLSEEQKSALAFINRGQPSSSNAGNKRSTIDESG  
SILSDISFDKTDSELDWDSSSLVKTFFKLKKREKRRSTSQRQFVDGPPGPVKKTRSIGSAVDQGNESIVAKTTVTVPN  
DGGPIEAVSTIETVPYWTRSRRTGTILQPWNDSSTLNSRQLEPRTETDSVGTTPQSNNGMRLHDFVSKTVIKPESC  
VPCGKRIKFGKLSLKCRDCRVVSHPECRDRCPLPCIPTLIGTPVKIGEGMLADFVSQTSPMIPSIHVHCVNEIEQ  
RGLTETGLYRISGCDRTVKELKEKFLRVKTVPLLSKVDDIHAICSLKDFLRNLKEPLLTFRNLRAFMEAAEITD  
EDNSIAAMYQAVGELPQANRDTLAFMLIHLQ RVAQSPHTKMDVANLAKVFGPTIVAHAVPNPDPVTMLQDIKRQP  
KVVERLLSLPLEYWSQFMMVEQENIDPLHVIENSNAFSTPQTPDIKVSLLGPVTTPEHQLLTPSSSSLSQVRVS  
TLTKNTPRFGSKSKSATNLGRQGNFFASPMK

3875/6881  
**FIGURE 3568**

CTATCCCATAGTCTCGCTGCCCTGAGCCTCCCGTGCCGGCCGGCCGGGGGAACAGGCGGGCGCTCGGGGGG  
CGCTCGGGGGGCGGGGGGAGTTCGGGTTCCGGTTCTTTGTGCGGCTGCATCGGCGGCTCCGGGAAGATGGCGGGC  
CGGGCGGGTTCCAGTCTGTGGCTCCAAGCGGCGGCGCGGAGCCTCAGGAGGGGCGGGCGGGCTGCTGCCTTG  
GGCCCCGGGCGAACTCCGGGGCCTCCTGTGCGAATCGGGCCGGCTCCGGGTCAAGGGCTGTACCGCTCCCCGATG  
CCCGGAGCGGCTATCCGAGACCAGGTATGTTGCCAGGCAGCCGAATGACACCTCAGGGACCTTCCATGGGACCC  
CCTGGCTATGGGGGAACCCCTCAGTCCGACCTGGCCTGGCCCAGTCAGGGATGGATCAGTCCCGCAAGAGACCT  
GCCCCTCAGCAGATCCAGCAGGTCCAGCAGCAGGCGGTCCAAAATCGAAACCACAATGCAAAGAAAAAGAAGATG  
GCTGACAAAATTCTACCTCAAAGGATTCTGTAAGTGGTACCAGAATCCCAGGCCATATGGATCTCTTGCGTTTTT  
GAAAGGAACTGGACCAGACTATCATGAGGAAACGGCTAGATATCCAAGAGGCCCTGAAACGTCCCATCAAGCAA  
AAACGGAAGCTGCGAATTTTCATTTCTAACACTTTCAATCCGGCTAAGTCAGATGCCGAGGATGGGGAAGGGACG  
GTGGCTTCTGGGAGCTTCGGGTAGAAGGACGGCTCCTGGAGGATTACGCCTTGTCAAATATGATGCCACTAAA  
CAAAAGAGGAAGTTCTCTCTCTTTTAAAGTCTTGGTGATTGAACTGGACAAAGACCTGTATGGGCCAGACAAC  
CATCTGGTAGAATGGCAGGACCGCCACTACCCAGGAGACCGATGGCTTTTCAAGGTGAAGCGGCGGGGAGACGTG  
AATGTACGGTGTACTGTCTACTGATGTGGATTACCAGCCTCCCCAGTTTAAATTAGACCCCGCCTAGCTCGA  
CTCCTGGGCATCCATACCCAGACTCGTCCAGTGATCATCCAAGCACTGTGGCAATATATTAAGACACATAAGCTC  
CAGGACCCCTCAGGAGCGGGAGTTTGTCTCTGTGACAAGTACCTGCAGCAGATCTTTGAGTCTCAACGTATGAAG  
TTTTAGAGATCCCTCAGCGGCTCCATGCCTTGCTTATGCCACCAGAACCTATCATCATTAAATCATGTATCAGT  
GTTGACCCGAATGATCAGAAAAAGACAGCTTGTTATGACATTGATGTTGAAGTGGATGACACCTTGAAGACCCAG  
ATGAATTCTTTTCTGCTGTCCACTGCCAGCCAACAGGAGATTGCTACTCTAGACAACAAGATCCATGAGACAATA  
GAAACCATCAACCTGAAGACTCAGCGGGAGTTTATGCTGAGCTTTGCCAGAGACCCCTCAGGGTTTCATCAAT  
GACTGGCTTCAGTCCCAGTGCAGGGACCTCAAGACAATGACTGATGTGGTGGGTAACCCAGAGGAGGAGCGCCGA  
GCTGAGTTCTACTTCCAGCCCTGGGCTCAGGAGGCTGTGTGCCGATACTTCTACTCCAAGGTGCAGCAGAGACGA  
CAAGAATTAGAGCAAGCCCTGGGAATCCGGAATACATAGGCGCTCTCCACAGCCCTGATTGACTGCACCAATT  
CTTGATTTGGGCCCTGTGCTGCCTGCCTCATAGTATCTGCCTTGGTCTTGCTTGGGGCGTTCCAGGGGATGCTGT  
TGTTTCAAGGACAACACCAGAATGAAGAGGGTCTCACAAGACACCTGTTATCCTCTTCTTTACCCCTATCTCTTC  
CCACCCCAAGCTTCCCTTTGCCCCACAAAGTTCCCATGTGCCTGTACCCTCCCCTGGTCTACATAGGACCTCTAG  
ATAGTGTTAGAGAGAGAATGATGAGTGAATGAGTGTGGAATGGATTGGGCTCAGGCCAGGTGGTCTTCAA  
GGGGACCAGCTAAGTATCCTGCCCTCAGAGACCCAGGAGTTGGGAGCTTTCGCTCCTTCTCCAAGACTCAGGC  
CTGTGGGCACTCTATAAGCTAGTTGATCTTGGCTCTCCTGATAACAGAATCCAATTTCTTCTCCTTCCCTCCACAG  
GTTTGAACAACTCTCCCTTCACTTGTGCTGCTGTAGCACTACAGAAACCCCTGGTTCTTGGGCTCCACTGAGCC  
CCAGGTGAGTCCCAGCCCTCTGGGTTGGCCTGCTGTGAGTCTTCTCTACTCCTTAGTTGGGGTCCACATCAG  
TATTGGAGTTTTGTTCTTTATTGCTCCCTCCCAGACACTCCCTGTGGCTGCCCTTTGTGATTCCCTCAGATCTGC  
CCTAATCCCGGCATTTGGGTGGGGGAATCTTGCCCTTCCCTTTTCCAGAGCCCGAGGATCTCATCTGGGGAATG  
TCATTGCCAGCAGAGGCTGTTCTTCCCTGCTGTTTGGAGATGTGACTCATTCACTCACTCACTCCACCCCTGCCTC  
TGCATCCCTTAATGGAGAAACGGGCCTAAAACCAAACGGGTAAAAGCCCTGGGCCATCCCTGTCTTCTGTGCC  
TTGTCTGCCAGTTGACACCTACTGGTGACTTCTAGGCACTGAGGAGTGAAAGCGCCTAGGGCTGGAGAAATAGC  
GCTGAGTTGGGTTTGTGACTCTTCCCTCTCCCTGCCTCACAGGATTGTGACTCCCAGCCCTGCCCTCAAAGCT  
TCAGACCCCTCAGGTAGCAGCAGGACCTTGTGATCTTGGCCCTTGGATCTGAGATGTTTTTGCATCTTTCCAG  
GAGAGCCTCACATTTCTTCTCCAGGTTGTATCACCCCGAGTTAGCATATCCAGGCTCGCAGACTCAACACAGC  
AAGGGTGGGAGACAGCTGGGCACAAAGGGGGAATTCGTTTCAAGCATGGGCTCTAAACCCACAGAATGACAAAGC  
CCCTGCTTCCCCACCCCTCCTCAGGCTCCTGCGAGCACACCCCAACCCCAATCCCTCCCTGTTTCTACTGAGG  
GGACAGCAGAAATTTCTCCCGTCTTCCCTTCTGCCATTTTCCCTCCCTTGAAGGTTGACACTGGACAACCT  
TGGGGCAGCTGAGCCCTGGCCGCTCCTGGCTGGAACCATGAGAAGGAAGCTCAGTACTTCCACAGTGTCCCTG  
TTGATAACTGTTTTTATTAAGTGAATGTTTTTTTTCATGGACCAACTTTTTTTTGTACTGTCCCTTATTGATG  
TTACCCAGTTTAAATAAAGAATCTTCTGAAAAAAAAAAAAAAAAAAAA

3876/6881  
**FIGURE 3569**

MGPAPGGGLYRSPMPGAAYPRPGMLPGSRMTPQGFSMGPPGYGGNPSVRPGLAQSGMDQSRKRPAPQQIQQVQQQ  
AVQNRNHNAKKKKMADKILPQRIRELVPEAQAYMDLLAFERKLDQTIMRKRLDIQEALKRPIKQKRKLRIFISNT  
FNPAKSDAEDGEGETVASWELRVEGRLLDSALSKYDATKQKRKFSSFFKSLVIELDKDLYGPDNHLVEWHRTATT  
QETDGFQVKRPGDVNVRCTVLLMLDYQPPQFKLDPRLARLLGIHTQTRPVIIQALWQYIKTHKLQDPHEREFVIC  
DKYLQQIFESQRMKFSEIPQRLHALLMPPEPIIINHVISVDPNDQKKTACYDIDVEVDDTLKTQMNSFLLSTASQ  
QEJATLDNKIHETIETINQLKTQREFMLSFARDPQGFINDWLQSQCRDLKMTDVVGNPEEERRAEFYFQPWAQE  
AVCRYFYSKVQQRQEELEQALGIRNT

3877/6881  
**FIGURE 3570**

TGCACTGTGACTCAGGCCTTCCCATCAGGCCTATTTGTCTACCCAATAAAGCGTGTTTTTCCAGAAACAAGAAG  
AGTTGGGAGAGGGAGCTTCAGTGCAATGTGGCAGTGCGTGTGCTGGCGCGTATCATTGCACAGCTTGGCTCGCCAA  
AGACCCTCCCTCGAGGGAGAGAAAACACAGCCCCCAGAATTCAGCGGGCCTCTCCGAGAGCACGGCGCGTCTGAG  
GATGCGTATGTTGACCCGAATGATCAGAAAAAGACAGCTTGTTATGACATTGATGTTGAAGTGGATGACACCTTG  
AAGACCCAGATGAATTCTTTCTGCTGTCCACTGCCAGCCAACAGGAGATTGCTACTCTAGACAACAAGATCCAT  
GAGACAATAGAAACCATCAACCAGCTGAAGACTCAGCGGGAGTTCATGCTGAGCTTTGCCAGAGACCCTCAGGGT  
TTCATCAATGACTGGCTTCAGTCCCAGTGCAGGGACCTCAAGACAATGACTGATGTGGTGGGTAACCCAGAGGAG  
GAGCGCCGAGCTGAGTTCTACTTCCAGCCCTGGGCTCAGGAGGCTGTGTGCCGATACTTCTACTCCAAGGTGCAG  
CAGAGACGACAAGAATTAGAGCAAGCCCTGGGAATCCGGAATACATAG

3878/6881  
**FIGURE 3571**

GTACCTCACGGAAGCCGGCTTTGGCCCTGCGGCTGCTACCGTCGCCGCGGAGAAAATTGTTGGATCTGGCAGTCTA  
GGAATGAATCTCCTCTCAGCCTTTAAGCTCACCTGGTCAGAATCCTTGGATGAGCCTGTGGGACCGTTCCCTCCTA  
GCCCCGTGGTTTGGAAACAGTGGCTTTGGGACTGTAAGAGGATGGACAAAGATTCTCAGGGGCTGCTAGATTTCAT  
CCCTGATGGCATCAGGCACTGCCAGCCGCTCAGAGGATGAGGAGTCACTGGCAGGGCAGAAGCGAGCCTCCTCCC  
AGGCCTTGGGCACCATCCCTAAACGGAGAAGCTCCTCCAGGTTTCATCAAGAGGAAGAAGTTCGATGATGAGCTGG  
TGGAGAGCAGCCTGGCAAAATCTTCTACCCGGGCAAAGGGGGCCAGTGGGGTGGAAACCAGGGCGCTGTTCCGGGA  
GTGAACCCCTCCTCCAGTGAGAAGAAGAAGGTATCCAAAGCCCCCAGCACTCCTGTGCCACCCAGCCCAGCCCCAG  
CCCCTGGACTACCAAGCGTGTGAAGAAGAGTAAACAGCCACTTCAGGTGACCAAGGATCTGGGCCGCTGGAAGC  
CTGCAGATGACCTCCTGCTCATAAATGCTGTGTTGCAGACCAACGACCTGACCTCCGTCCACCTGGGCGTGAAAT  
TCAGCTGCCGCTTCACCCCTTCGGGAGGTCCAGGAGCGTTGGTACGCCCTGCTCTACGATCCTGTCTATCTCCAAGT  
TGGCCTGTGAGCCATGAGGCAGCTGCACCCAGAGGCTATTGCAGCCATCCAGAGCAAGGCCCTGTTTAGCAAGG  
CTGAGGAGCAGCTGCTGAGCAAAGTGGGATCGACAGCCAGCCACCTTGGAGACCTTCAGGACCTGCTGCACA  
GACACCCCTGATGCCTTCTACCTGGCCCGTACCGCGAAGGCCCTGCAGGCCCACTGGCAGCTCATGAAGCAGTATT  
ACCTGCTGGAGGACCAGACAGTGCAGCCGCTGCCCAAAGGGGACCAAGTGTGAACTTCTCTGATGCAGAGGACC  
TGATTGATGACAGTAAGCTCAAGGACATGCGAGATGAGGTCTTGAACATGAGCTGATGGTGGCTGACCGGCGCC  
AGAAGCGAGAGATTCCGCAGCTGGAACAGGAAGTGCATAAGTGGCAGGTGCTAGTGGACAGCATCACAGGCATGA  
GCTCTCCGGAAGTTCGACAACCAGACACTGGCAGTGTGCGGGGCCGATGGTGCAGTACCTGATGCGCTCGCGTG  
AGATCACCCCTGGGCAGAGCAACCAAGGATAACCAGATTGATGTGGACCTGTCTCTGGAGGGTCCGGCCTGGAAGA  
TATCCCGGAAACAAGGTGTCTCATCAAGCTGAAGAACAACGGTGATTTCTTATTGCCAATGAGGGTTCGACGGCCCA  
TCTACATCGATGGACGGCCGGTGTCTGTGGCTCCAAATGGCGCCTCAGCAACAACCTCTGTGGTGGAGATCGCCA  
GCCTGCGATTCTCTTCTTATCAACCAGGACCTCATTGCCCTCATCAGGGCTGAGGCTGCCAAGATCACACCAC  
AGTGAGGAGTGGTGGCAGGACTCGTGGGCCCTCTCCGGCCTGTTTCCCCTGCCACTCCAGCCCCCTTGAGCTGGG  
AACTCAGGCTCCTGGAAAAACCTGGGCAGTGGGAGGCTCAGCTGCGGGCCATTGATTTGAGCCTTTGAGGGAGGA  
TAGGGCTGGCCTTTGTGAAGCCAGCAGAGGCTGAGAACCTCAGGCTTCCCTAGATCCAGAGCCCCCTCCCATCTT  
CCTCTCTCTAAAAACAACCCATCCCCCATTGCCACCTTCACTCCTGTGTCTCCAGCTGATTAGCCTCAGACTCT  
TCTTTTATTGTTTTCTTTTGTAAATAAAAAGCACCAGGTTCC

3879/6881  
**FIGURE 3572A**

GGCAGGAGGCGCTAGGTAGAGCGCCGGGACCTGTGACAGGGCTGGTAGCAGCGCACAGGAAAGGCGGCTTTTAGC  
CAGGTATTTTCAGTGTCTGTAGACAAGATGGAATCATCTCCATTTAATAGACGGCAATGGACCTCACTATCATTGA  
GGGTAACAGCCAAAGAACTTTCTCTGTCAACAAGAACAAGTCATCGGCTATTGTGGAATATTCTCCAAGTACC  
AGAAAGCAGCTGAAGAAACAAACATGGAGAAGAAGAGAAGTAACACCGAAAATCTCTCCAGCACTTTAGAAAGG  
GGACCTGACTGTGTTAAAGAAGAAGTGGGAGAACCAGGGCTGGGAGCAGAGTCTCACACAGACTCTCTACGGA  
ACAGCAGCACTGAGATTAGGCACAGAGCAGACCATCCTCCTGCTGAAGTGACAAGCCACGCTGCTTCTGGAGCCA  
AAGCTGACCAAGAAGAACAATCCACCCAGATCTAGACTCAGGTCACCTCCTGAAGCCCTCGTTTCAGGGTCGAT  
ATCCCCACATCAAGGACGGTGAGGATCTTAAAGACCACTCAACAGAAAAGTAAAAAATGGAAAATTGTCTAGGAG  
AATCCAGGCATGAAGTAGAAAAATCAGAAATCAGTGA AACACAGATGCTTCGGGCAAAATAGAGAAATATAATG  
TTCCGCTGAACAGGCTTAAGATGATGTTTGAGAAAGGTGAACCAACTCAAATAAGATTCTCCGGGCCCCAAGCC  
GAAGTGCAAGTGAAGGAAGATCTCTGAAAACAGCTATTCTCTAGATGACCTGGAAATAGGCCCAGGTCAGTTGT  
CATCTTCTACATTTGACTCGGAGAAAAATGAGAGTAGACGAAATCTGGAACCTCCACGCTCTCAGAAACCTCTA  
TAAAGGATCGAATGGCCAAGTACCAGGCAGCTGTGTCCAAACAAAGCAGCTCAACCAACTATACAAATGAGCTGA  
AAGCCAGTGGTGGCGAAATCAAAATTCATAAAATGGAGCAAAAGGAGAATGTGCCCCCAGGTCCTGAGGTCTGCA  
TCACCCATCAGGAAGGGGAAAAGATTTCTGCAATGAGAATAGCCTGGCAGTCCGTTCCACCCCTGCCGAAGATG  
ACTCCCGTGACTCCAGGTTAAGAGTGAGGTTCAACAGCCTGTCCATCCCAAGCCACTAAGTCCAGATTCCAGAG  
CCTCCAGTCTTTCTGAAAGTTCTCTCCCAAAGCAATGAAGAAGTTTCAGGCACCTGCAAGAGAGACCTGCGTGG  
AATGTGAGAAGACAGTCTATCCAATGGAGCGTCTCTGGCCAAACCAGCAGGTGTTTCACATCAGCTGCTTCCGTT  
GCTCCTATTGCAACAACAACTCAGTCTAGGAACATATGCATCTTTACATGGAAGAATCTATTGTAAGCCTCACT  
TCAATCAAGTCTTTTAAATCTAAGGGCACTATGATGAAGGCTTTGGGCACAGACCACACAAGGATCTATGGGCAA  
GCAAAATGAAAACGAAGAGATTTTGAGAGAGACCAGCCAGCTTGCAATGCAAGGGAGACCCCTCACAGCCCAG  
GGGTAGAGATGCCCTATTGCTAAGGTGGGTGTCTGGCTGCAAGTATGGAAGCCAAGGCCTCCTCTCAGCAGG  
AGAAGGAAGACAAGCCAGCTGAACCAAGAAGCTGAGGATCGCCTGGCCACCCCCACTGAACTTGGAAGTTTACG  
GAAGTGCCCTTGAGGAAGGGATCAAAATGTCAAAGCCCAATGGCCTCCTGAAGACGAAATCAGCAAGCCCGAAG  
TTCTTGAGGATGTGATCTAGATCTGAAGAAGCTAAGACGATCTTCTTCACTGAAGGAAAGAAGCCGCCATTCA  
CTGTAGCAGCTTCATTTCAAAGCACCTCTGTCAAGAGCCCAAAACTGTGTCCCACTATCAGGAAAGGCTGGA  
GCATGTGAGAGCAGAGTGAAGAATCTGTGGGTGGAAGAGTTGCAGAAAGGAAACAAGTGGAATGCCAAGGCTT  
CTAAGAAGAATGGGAATGTGGGAAAAACAACCTGGCAAAACAAGAATCTAAGGAGAGACAGGGAAGAGAAGTA  
AGGAAGGTCTAGTTTGGAGATGGAGAATGAGATCTGTAGAAAATGGTGCAGACTCCGATGAAGATGATAACA  
GCTTCTCTCAAACAACATCTCCACAAGAACCAAGTCTGAATTGGTCGAGTTTGTAGACAACACCTTTGCTG  
AAGAATTCACTACTCAGAAATCAGAAATCCAGGATGTGGAACCTCTGGGAGGAGAAAGTGGTCAAAGAGCTCTCTG  
TGGAAGAACAGATAAAGAGAAATCGGTATTATGATGAGGATGAGGATGAAGAGTGACAAATTGCAATGATGCTGG  
GCCTTAAATTCATGTTAGTGTAGCGAGCCACTGCCCTTTGTCAAATGTGATGCACATAAGCAGGTATCCCAGC  
ATGAAATGTAATTTACTTTGGAAGTAACTTTGGAAAAGAAATTCCTTCTTAAATCAAAAACAAAACAAAAAACAC  
AAAAAACACATTCTAAATACTAGAGATAACTTTACTTAAATCTTTCATTTTAGCAGTGATGATGCATAAGTGC  
TGTAAGGCTTGTAAGTGGGAAATATTCCACCTGATAATAGCCAGATTCTACTGTATTCCAAAAGGCAATATT  
AAGGTAGATAGATGATTAGTAGTATATTGTTACACACTATTTTGAATTAGAGAACATACAGAAGGAATTTAGGG  
GCTTAAACATTACGACTGAATGCACCTTTAGTATAAAGGGCACAGTTTGTATATTTTAAATGAATACCAATTTAA  
TTTTTTAGTATTTACCTGTTAAGAGATTATTTAGTCTTTAAATTTTTTAGGTTAATTTTCTGTGTGATATATA  
TGAGGAATTTACTACTTTATGTCCTGCTCTCTAACTACATCCTGAACCTCGACGTCCTGAGGTATAATACAACAG  
AGCACTTTTTGAGGCAATTGAAAACCAACCTACACTCTTCGGTGCTTAGAGAGATCTGCTGTCTCCCAATAAG  
CTTTTGATCTGCCAGTGAATTTACTGTACTCCAAATGATTGCTTTCTTTCTGGTGATATCTGTGCTTCTCATA  
ATTACTGAAAGCTGCAATATTTTAGTAATACCTTCGGGATCACTGTCCCCATCTTCCGTGTAGAGCAAAGTGA  
AGAGTTTAAAGGAGGAAGAAGAAGAACTGTCTTACACCACTTGAGCTCAGACCTCTAAACCCTGTATTTCCCTT  
ATGATGTCCCTTTTTGAGACACTAATTTTTAAATACTTACTAGCTCTGAAATATATTGATTTTTATCACAGTAT  
TCTCAGGGTGAAATTAACCAACTATAGGCCTTTTTCTTGGGATGATTTTCTAGTCTTAAGGTTTGGGGACATTA  
TAACTTGAGTACATTTGTTGTACACAGTTGATATTCCAAATGTATGGATGGGAGGGAGAGGTGTCTTAAGCTG  
TAGGCTTTTCTTGTACTGCATTTATAGAGATTTAGCTTTAATATTTTTTAGAGATGTAAAACATTCTGCTTTCT

3880/6881

**FIGURE 3572B**

TAGTCTTACCTAGTCTGAAACATTTTATTCAATAAAGATTTTAATTAAAATTG

3881/6881  
**FIGURE 3573**

MESSPFNRRQWTSLSLRVTAKELSLVNKNKSSAIVEIFSKYQKAAEETNMEKKRSNTENLSQHFRKGTTLTVLKKK  
WENPGLGAESHTDSLRSSTEIRHRADHPPAEVTSHAASGAKADQEEQIHPRSLRSPPEALVQGGRYPHIKDGED  
LKDHSTESKKMENCLGESRHEVEKSEISENTDASGKIEKYNVPLNRLKMMFEKGEPQTQKILRAQSRASGRKIS  
ENSYSLDDLEIGPGQLSSSTFDSEKNESRRNLELPRLSETSIKDRMAKYQAAVSKQSSSTNYTNELKASGGEIKI  
HKMEQKENVPPGPVEVCITHQEGEKISANENSLAVRSTPAEDDSRDSQVKSEVQQPVHPKPLSPDSRASSLSESSP  
PKAMKKFQAPARETCVECQKTVPYMERLLANQQVFHISCFRCSYCNKLSLGTIASLHGRIYCKPHFNQLFKSKG  
NYDEGFGHRPHKDLWASKNENEEILERPAQLANARETPHSPGVEDAPIAKVGVLAASMEAKASSQKEKEDKPAET  
KKLRIAWPPPTLGSSSGSALEEGIKMSKPKWPPPEDEISKPEVPEDVDLDLKKLRRSSSLKERSRPFTVAASFQST  
SVKSPKTVSPPIRKGWSMSEQSEESVGGRAERKQVENAKASKNGNVGKTTWQNKESKGETGKRSKEGHSLEME  
NENLVENGADSDDDNSFLKQQSPQEPKSLNWSSFVDNTFAEEFTTONQKSQDVELWEGEVVKELSVEEQIKRNR  
YYDEDEDEE



3882/6881

**FIGURE 3574**

ATGGAAGATTCCCACAAGAGTACCACGTCAGAGACAGCACCTCAACCTGGTTCAGCAGTTCAGGGAGCTCACATT  
TCTCATATTGCTCAACAGGTATCATCTTTATCAGAAAGTGAGGAGTCCCAGGACTCATCCGACAGCATAGGCTCC  
TCACAGAAAGCCCCACGGGATCCTAGCACGGCGCCCATCTTACAGAAAAATTTTGAAAGACTTATCTTCTGAAGAT  
ACACGGGGCAGAAAAGGAGACGGAGAAAATTCTGGAGTTTCTGCTGCTGTCACTTCTATGTCTGTTCCTCAACTCCC  
ATCTATCAGACTAGCAGCGGACAGTACATTGCCATTGCCCCAAATGGAGCCTTACAGTTGGCAAGTCCAGGCACA  
GATGGAGTACAGGGACTTCAGACATTAAACCATGACAAATTCAGGCAGTACTCAGCAAGGTACAACCTATTCTTCAG  
TATGCACAGACCTCTGATGGACAGCAGATACTTGTGCCCAGCAATCAGGTGGTCGTACAACTGCATCAGGAGAT  
ATGCAAACATATCAGATCCGAACTACACCTTCAGCTACTTCTCTGCCACAACTGTGGTGATGACATCTCCTGTG  
ACTCTCACCTCTCAGACAACTAAGACAGATGACCCCCAATTGAAAAGAGAAATAAGGTTAATGAAAAACAGAGAA  
GCTGCTCGAGAATGTGCGCAGAAAGAAGAAAGAATATGTGAAATGCCTGGAAAACCGAGTTGCAGTCCTGGAAAAT  
CAAAATAAACTCTAATAGAAGAGTTAAAACTTTGAAGGATCTTTATTCCAATAAAAGTGTTTGA

3883/6881  
**FIGURE 3575**

MEDSHKSTTSETAPQPGSAVQGAHISHIAQQVSSLSESEESQDSSDSIGSSQKAHGILARRPSYRKILKDLSSD  
TRGRKGDGENSGVSAAVTSMSPPTPIYQTSSGQYIAIAPNGALQLASPGTDGVQGLQTLTMTNSGSTQQGTTILQ  
YAQTS DGQQILVPSNQVVVQTASGDMQTYQIRTTSPATSLPQTVVMTSPVLTTSQTTKTDDPQLKREIRLMKNRE  
AARECRRKKKEYVKLENRVAVLENQNKTLIEELKTLKDLYSNKSV

3884/6881

## FIGURE 3576

GTTTTTTTCCCTTCTGAGCAATGGAGCTTACCATCTTTATCCTGAGACTGGCCATTACATCCTGACATTTCCCT  
TGTACCTGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCTACTTCTTGGTGAGGTCA  
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGC GG GGGCCCT  
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAACTTCAAGTTCTACCCACCTGGGTGCAGGG  
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT  
TTGAGCGCTTTTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA  
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGTGAGACGGGGAGGGG  
CTTTCTATTTTCATGGAGCATGTGGCAGCTGAGTGTTCGACTTGGAATTACTTCTGGCAACAAGTCTTGATCCTG  
CCTGGCACCTTCTGTTTGTATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA  
AGCTGAAGCTGCAGCACATCCAGGCCCACTGTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA  
AATAGTGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAATGCTAA  
GTGGGAGAAGAGAAACCTTTTTTTTGGGGGGCGGTTTTTTTGGTTTTGTGTTGGTTTTTTTTTTTTTTTGGCAA  
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAGAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG  
GCCGGTCTTGAACCTCTGGGCTCAAGTGATTCTCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA  
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAACAAATCTGAATCTATTGTTATTCTTAGCGTCACTGG  
TCTGGCTTTCAGAAATTAACATACAAGGTGCCACACCTAGTTCTGCCAGCTTTATGTCTTTTATTCCAGTATTC  
CACCAAAGTTTGTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTAAGTTGACAGTTTAGTATATCC  
ATAAACTATTTGAGGTGGTTAAGGTCTTGGGTTCAATTTCCCTTAATACTTTGCTGAATATTGTAGATTGTAGG  
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCCTAAACATCAAGC  
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT  
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAATCATCACAAGTGCCTCTGAAAGCGAGTGTAGGTTGGTTAG  
AGGGTTTAATATTTTCTGCAATGGTTGTAGGAATTTAATAAATGTAGTATATTTTCTGAGATGATTTTGTAAA  
AGTACTATTTTAAATATCAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

3885/6881  
**FIGURE 3577**

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL  
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVCTLVLC SV  
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASF SKLKLQHI  
QAPLSWELVRPHIYGAVK

3886/6881  
**FIGURE 3578**

CAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTT  
TCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGG  
GCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCA  
AGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCT  
TTGGTGGCGCCGGGAGTGGATTTGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCC  
TTGCTGGTGGCTTTGGGGGCCCTGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTCACCGTCAACCAGA  
GTCTCCTGACTCCCCTCAACCTGCAAATTGACCCCGCCATCCAGCGGGTGCGGGCCGAGGAGCGTGAGCAGATCA  
AGACCCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTTCCTAGAGCAGCAGAACAAGGTTCTGGACA  
CCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACA  
TCAACAACCTCAGGAGGCAGCTGGACAACAT

3887/6881  
**FIGURE 3579**

CCTGCCTCTCGCCTCCAGCCTCCAACGCTCGCCACAGCCCTCTCATCTCCTGGAACCATGGCCAGCACATCCACC  
ACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCTCCCTGGGGTCAGCCGCTCT  
GGCTTCAGCAGCATCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGCATGTGGAGGAGCTGGCTTT  
GGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGGGCAGCTGTGCCATCAGTGGC  
GGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATTTGGTTTCGGTGGTGGAGCC  
GGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCCCTGGCTTCCTGTGTGCCCC  
CCTGGAGGCATCCAAGAGGTCACCGTCAACCAGAGTCTCCTGACTCCCCCTCAACCTGCAAATTGACCCCGCCATC  
CAGCGGGTGGCGGGCCGAGGAGCGTGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACAAGGTG  
CGGTTCCCTAGAGCAGCAGAACAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACTGTG  
AGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTCGGGGAA  
CGGGGCCCGCTGGACTCGGAGCTGAGAAACATGCAGGACCTGGTGGAGGACCTCAAGAACAATATGAGGATGAA  
ATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGATGCTGCCATCATGAACAAG  
GTTGAACTGCAAGCCAAGGCAGACACTCTCACAGATGAGATCAACTTCCTGAGAGCCTTGTATGATGCAGAGCTG  
TCCCAGATGCAGACCCACATCTCAGACACATCCGTGGTGTATCCATGGACAACAACCGCAACCTGGACCTGGAC  
AGCATCATCGCTGAGGTCAAGGCCCAATACGAGGAGATTGCTCAGAGGAGCCGGGCTGAGGCTGAGTCTGGTAC  
CAGACCAAGTACGAGGAGCTGCAGGTACAGCAGGCAGACATGGGGACGACCTGCGCAACACCAAGCAGGAGATT  
GCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCATGTCAAGAAGCAGTGTGCCAGCCTGCAG  
GCTGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCACTCAAGGATGCTAAGAACAAGCTGGAAGGGCTGGAG  
GATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCCGGCTGCTGAAGGAGTACCAGGAGCTGATGAATGTCAAGCTG  
GCCCCTGGATGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGTGCAGGCTGAATGGCGAAGGCGTT  
GGACAAGTCAACGTCTCTGTAGTACAGTCCACCATCTCCAGTGGCTATGGCGGTGCCAGCGGTGTCGGCAGTGGC  
TTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCATTGGAGGTGGCTTCAGTTCCAGCAGT  
GGCAGAGCCATTGGGGGTGGCCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAAGTACACCACCACCTCCTCC  
TCCAGCAGGAAGAGCTACAAGCACTAAAGTGTCTGCCTCCAGCTCTCGGTCCCACAGTCTCAGGCCCTTCTCTGG  
CTGCAGAGCCGTCTCCTCAGGTTGCCTATCCTCTCCTGGCCTCTAGTCTTCCCTGCTCTCCGAGGTAGAGCTGGG  
TATGGATGCTTAGTGCCCTCACTTCTCTGTCTATACCTGCCCCATCTGAGCACCCATTGCTCACCATCAGATC  
AACCTTTGATTTTACATCATAATGTATTACCAATGGAGCTTCACTTTGTTACTAAATTATTAATTTCTTGCCTC  
CAAAATTGTTCTCTCTGAGGCTGAGCATTATAAGAAAATGATCTCTGTTCCCTTTTCATTACTGAAAATCGCCTGG  
GGCTTATTTTCAACAACCTCCACTTATTTTCCATTGGCCCCCAAACCTCCCTAAGTTAAAAGTATTGTGAACCCC  
CGCCCCGAGTATGCATGGAAGCACAAAGTACTAGTCGTATGATGTACACAGTCTTCTCCCTGTGATGATTTCT  
CTGCTCTTTGCTCTTTGTAATTTCTAAATAAAGCAGGTTTTAGAATAA

3888/6881  
**FIGURE 3580**

CATGGCCAGCACATCCACCACCATCAGGAGCCACAGCAGCAGCCGCCGGGGTTTCAGTGCCAACTCAGCCAGGCT  
CCCTGGGGTCAGCCGCTCTGGCTTCAGCAGCGTCTCCGTGTCCCGCTCCAGGGGCAGTGGTGGCCTGGGTGGTGC  
ATGTGGAGGAGCTGGCTTTGGCAGCCGCAGTCTGTATGGCCTGGGGGGCTCCAAGAGGATCTCCATTGGAGGGG  
CAGCTGTGCCATCAGTGGCGGCTATGGCAGCAGAGCCGGAGGCAGCTATGGCTTTGGTGGCGCCGGGAGTGGATT  
TGGTTTCGGTGGTGGAGCCGGCATTGGCTTTGGTCTGGGTGGTGGAGCCGGCCTTGCTGGTGGCTTTGGGGGCC  
TGGCTTCCCTGTGTGCCCCCTGGAGGCATCCAAGAGGTACCCGTCAACCAGAGTCTCCTGACTCCCTCAACCT  
GCAAATCGATCCCACCATCCAGCGGGTGGCGGCTGAGGAGCGTGAACAGATCAAGACCTCAACAACAAGTTTGC  
CTCCTTCATCGACAAGGTGCGGTTCTTGGAGCAGCAGAACAAAGGTCTTGAAACAAAGTGGACCTGCTGCAGGA  
GCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCT  
GGACAGCATTGTTCGGGGAACGGGGCCGCTGGACTCAGAGCTCAGAGGCATGCAGGACCTGGTGGAGGACTTCAA  
GAACAAATATGAGGATGAAATCAACAAGCGCACAGCAGCAGAGAATGAATTTGTGACTCTGAAGAAGGATGTGGA  
TGCTGCCTACATGAACAAGGTGAACTGCAAGCCAAGGCAGACACTCTCACAGACGAGATCAACTTCTGAGAGC  
CTTGTATGATGCAGAGCTGTCCAGATGCAGACCCACATCTCAGACACATCTGTGGTGTGTCCATGGACAACAA  
CCGCAACCTGGACCTGGACAGCATCATCGCTGAGGTCAAGGCCAATATGAGGAGATTGCTCAGAGAAGCCGGGC  
TGAGGCTGAGTCTTGGTACCAGACCAAGTACGAGGAGCTGCAGGTCACAGCAGGCAGACATGGGGACGACCTGCG  
CAACACCAAGCAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCACGTCAAGAA  
GCAGTGCGCCAACCTGCAGGCCGCCATTGCTGATGCTGAGCAGCGTGGGGAGATGGCCCTCAAGGATGCCAAGAA  
CAAGCTGGAAGGGCTGGAGGATGCCCTGCAGAAGGCCAAGCAGGACCTGGCCCGGCTGCTGAAGGAGTACCAGGA  
GCTGATGAATGTCAAGCTGGCCCTGGACGTGGAGATCGCCACCTACCGCAAGCTGCTGGAGGGTGAAGAGTGCAG  
GCTGAATGGCGAAGGCGTTGGACAAGTCAACATCTCTGTGGTGCAGTCCACCGTCTCCAGTGGCTATGGCGGTGC  
CAGTGGTGTGCGCAGTGGCTTAGGCCTGGGTGGAGGAAGCAGCTACTCCTATGGCAGTGGTCTTGGCGTTGGAGG  
TGGCTTCAGTTCCAGCAGTGGCAGAGCCATTGGGGGTGGCTCAGCTCTGTTGGAGGCGGCAGTTCCACCATCAA  
GTACACCACCACCTCCTCCTCCAGCAGGAAGAGCTATAAGCACTAAAGTGCCTCTGCTAGCTCTCGGTCCCACAG  
TCCTCAGGCCCCCTCTCTGGCTGCAGAGCCCTCTCCTCAGGTTGCCTTTCTCTCTCTCTCTATACCATCTGAGACCC  
TGTCCCAGGTAGAGCTGGGTATGGATGCTTAGTGCCCTCACTTCTTCTCTCTCTCTATACCATCTGAGACCC  
ATTGCTCACCATCAGATCAACCTCTGATTTTACATCATGATGTAATCACCAGTGGAGCTTCACTGTACTAAATT  
ATTAAATTTCTTGCTCCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCTCCTTTTCATTG  
CAGAAAATTGCCAGGGGCTTATTTCAGAACAACTTCCACTTACTTTCCACTGGCTCTCAAACCTCTCTAACTTATA  
AGTGTGTGAACCCCCACCCAGGCAGTATCCATGAAAGCACAAGTGAAGTACTAGTCTATGATGTACAAAGCCTGTAT  
CTCTGTGATGATTTCTGTGCTCTTCGCTGTTTGCAATTGCTAAATAAA

3889/6881  
**FIGURE 3581**

TCGACAGCTCTCTCGCCCAGCCCAGTTCTGGAAGGGATAAAAAGGGGGCATCACCGTTCCTGGGTAACAGAGCCA  
CCTTCTGCGTCCTGCTGAGCTCTGTTCTCTCCAGCACCTCCCAACCCACTAGTGCCCTGGTTCTCTTGCTCCACCA  
GGAACAAGCCACCATGTCTCGCCAGTCAAGTGTGTCCTTCCGGAGCGGGGGCAGTCGTAGCTTCAGCACCGCCTC  
TGCCATCACCCCGTCTGTCTCCCGCACEAGCTTCACCTCCGTGTCCCGGTCCGGGGGTGGCGGTGGTGGCTT  
CGGCAGGGTCAGCCTTGCGGGTGCTTGTGGAGTGGGTGGCTATGGCAGCCGGAGCCTCTACAACCTGGGGGGCTC  
CAAGAGGATATCCATCAGCACTAGTGGTGGCAGCTTCAGGAACCGGTTTGGTGTGGTGGCTGGAGGCGGCTATGG  
CTTTGGAGGTGGTGCCGGTAGTGGATTTGGTTTCCGGCGGTGGAGCTGGTGGTGGCTTTGGGCTCGGTGGCGGAGC  
TGGCTTTGGAGGTGGCTTCGGTGGCCCTGGCTTTCTGTCTGCCCTCCTGGAGGTATCCAAGAGGTCACTGTCAA  
CCAGAGTCTCCTGACTCCCTCAACCTGCAAATCGACCCAGCATCCAGAGGGTGAGGACCGAGGAGCGCGAGCA  
GATCAAGACCCTCAACAATAAGTTTGCCTCCTTCATCGACAAGGTGCGGTTCTGGAGCAGCAGAACAAGGTTCT  
GGACACCAAGTGGACCCTGTGTCAGGAGCAGGGCACCAAGACTGTGAGGCAGAACCTGGAGCCGTTGTTTCGAGCA  
GTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGGGAACGGGGCCGCCTGGACTCAGAGCTGAGAAA  
CATGCAGGACCTGGTGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGAATGA  
GTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATGCACT  
GATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCAGATGCAGACGCATGTCTCTGACAC  
CTCAGTGGTCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCCAGTA  
TGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCTGGTATCAGACCAAGTATGAGGAGCTGCAGCAGAC  
AGCTGGCCGGCATGGCGATGACCTCCGCAACACCAAGCATGAGATCTCTGAGATGAACCGGATGATCCAGAGGCT  
GAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAATCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGG  
GGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGAGCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACAT  
GGCCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACACCAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCG  
CAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGAAGGAGTTGGACCAGTCAACATCTCTGTTGTACAAG  
CAGTGTTCCTCTGGATATGGCAGTGGCAGTGGCTATGGCGGTGGCCTCGGTGGAGGTCTTGGCGGCGGCCCTCGG  
TGGAGGTCTTGCCGGAGGTAGCAGTGGAAAGCTACTACTCCAGCAGCAGTGGGGGTGTCCGCCTAGGTGGTGGGCT  
CAGTGTGGGGGGCTCTGGCTTCAGTGCAGCAGTGGCCGAGGGCTGGGGGTGGGCTTTGGCAGTGGCGGGGGTAG  
CAGCTCCAGCGTCAAATTTGTCTCCACCACCTCCTCCTCCCGGAAGAGCTTCAAGAGCTAAGAACCTGCTGCAAG  
TCACTGCCTTCCAAGTGCAGCAACCCAGCCCATGGAGATTGCCTCTTCTAGGCAGTTGCTCAAGCCATGTTTTAT  
CCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCAGGAGAGCCCCATTCCC  
AGCCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTCCACAGCATGGCCCT  
GCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATAAAACAGAATCCCCACCCCAATCCCAAATTTTGT  
TTTGGTTCTAACTACCTCCAGAATGTGTTCAAATAAATGCTTTTATAATAT



3890/6881  
**FIGURE 3582**

GTGGGCTCAGTGTGGGGGGCTCTGGCTTCAGTGCAAGCAGTGGCCGAAGCTTCAAGAGCTAAGAACCTGCTGCAA  
GTCAGTGCCTTCCAAGTGCAGCAACCCAGCCCATGGAGATTGCCTCTTCTAGGCAGTTGCTCAAGCCATGTTTTA  
TCCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCCAGGAGAGCCCCATTCC  
CAGCCCCCTGGTCTCCCGTGCCGCAGTTCTATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGCATGGCCCC  
TGCTGACACGAGAACCCTAAAGTTTTCCCAAATCTAAATCATCAAAACAGAATCCCCACCCCAATCCCAAATTTTG  
TTTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAATA

3891/6881

**FIGURE 3583**

GTGCGGTTCCCTGGAGCAGCAGAACAAGGTTCTGGACACCAAGTGGACCCTGCTGCAGGAGCAGGGCACCAAGACT  
GTGAGGCAGAACTGGAGCCGTTGTTTCGAGCAGTACATCAACAACCTCAGGAGGCAGCTGGACAGCATCGTGGGG  
GAACGGGGCCCGCTGGACTCAGAGCTGAGAAACATGCAGGACCTGGTGAAGACTTCTAGGCAGTTGCTCAAGCC  
ATGTTTTATCCTTTTCTGGAGAGTAGTCTAGACCAAGCCAATTGCAGAACCACATTCTTTGGTTCCCAGGAGAGC  
CCCATTCCCAGCCCCTGGTCTCCCGTGCCGCAGTTCATATTCTGCTTCAAATCAGCCTTCAGGTTTCCCACAGC  
ATGGCCCCTGCTGACACGAGAACCCAAAGTTTTCCCAAATCTAAATCATCAAAACAGAATCCCCACCCCAATCCC  
AAATTTTGTTTTGGTTCTAACTACCTCCAGAATGTGTTCAATAAAATGCTTTTATAAT

3892/6881  
**FIGURE 3584**

GAAACATGCAGGACCTGGTGGAAGACTTCAAGAACAAGTATGAGGATGAAATCAACAAGCGTACCACTGCTGAGA  
ATGAGTTTGTGATGCTGAAGAAGGATGTAGATGCTGCCTACATGAACAAGGTGGAGCTGGAGGCCAAGGTTGATG  
CACTGATGGATGAGATTAACTTCATGAAGATGTTCTTTGATGCGGAGCTGTCCCAGATGCAGACGCATGTCTCTG  
ACACCTCAGTGGTCCTCTCCATGGACAACAACCGCAACCTGGACCTGGATAGCATCATCGCTGAGGTCAAGGCCC  
AGTATGAGGAGATTGCCAACCGCAGCCGGACAGAAGCCGAGTCCTGGTATCAGACCAAGTCCGCAACACCAAGCA  
TGAGATCTCTGAGATGAACCGGATGATCCAGAGGCTGAGAGCCGAGATTGACAATGTCAAGAAACAGTGCGCCAA  
TCTGCAGAACGCCATTGCGGATGCCGAGCAGCGTGGGGAGCTGGCCCTCAAGGATGCCAGGAACAAGCTGGCCGA  
GCTGGAGGAGGCCCTGCAGAAGGCCAAGCAGGACATGGCCCGGCTGCTGCGTGAGTACCAGGAGCTCATGAACAC  
CAAGCTGGCCCTGGACGTGGAGATCGCCACTTACCGCAAGCTGCTGGAGGGCGAGGAATGCAGACTCAGTGGAGA  
AGGAG

3893/6881

**FIGURE 3585**

CCGCGCCTTCAGCTGCATCTCGGCCTGCGGGCCCCCGGCCCGCGCTGCTGCATCACCGCCGCCCCCTACCGCGG  
CGTCTCCTGCTACCGCGGCCTCACCGGAGGCTTCGGCAGCCACAGCGTGTGCGGGGGCTTCCGCGCCGGCTCCTG  
CGGACGCAGCTTCGGCTACCGCTCCGGGGGCGTGTGCGGACCCAGCCCCCATGCATCGCCACCGTGTGGTCAA  
CGAGAGCCTCCTCACGCCCCCTCAACCTGGAGATCGACCCCAACGCACAGTGCCTGAAGCAGGAGGAGAAGGAGCA  
GATCAAGTCCCTCAACAGCAGGTTTCGCGGCCTTCATGGACAAGGTGGGTGTCCTGGAGCAGCAGAACAAAGCTGCT  
GGAGACAAAGCTGCAGTTCTTCCAGAACCGTGAGTGTGCAAGAGCAACCTGGAGCCTCTGTTGAGGGCTACAA  
CTCTGCGACGGGAGGCCGAGTGCATGGAAGCCAACAGTGGGAGGCTGGCCTCAGAGCTCAACCAGTGCAGGAGG  
TGCTGGAGGGTTACAAGAAGAAGTATGAGGAGGAGGTTTCTCTGAGAGCAACAGCTGAGAACGAGTTTGTGGCTT  
TGAAGAAGGATGTGGACTGCGCCTACCTCCGCAAGTCAGACCTGGAGGCCAACGTGGAGGCCCTGATCCAGGAGA  
TCGACTTCCTGAGGCGGCTGTATGAGGAGGAGATCCTCATTCTCCAGTCGCACATCTCAGACACCTCCGTGGTTG  
TCAAGCTGGACAACAGCCGGGACCTGAACATGGACTGCATCATTGCCGAGATTAAGGCACAGTATGACCACATTG  
TCACCCGCAGCCGGGCGGAGGCCGAGTCTGGTACCGCAGCAAGTGTGAGGAGATGAAGGCCACGGTGATCAGGC  
ACGGGGAGACCCTGCGCCGCACCAAGGAGGAGATCAATGAGCTGAACCGCATGATCCAAAGGCTGACGGCCGAGG  
TGGAGAATGCCAAGTGCCAGAACTCCAAGCTGGAGGCCGCGGTGGCCCACTCTGAGCAGCAGGGTGAGGCGGGCC  
TCAGTGATGCCCCTGCAAGCTGGCCGAGCTGGAGGGCGCCCTGCAGAAGGCCAAGCAGGACATGGCCTGCCTGA  
TCAGGGAGTACCAGGAGGTGATGAACTCCAAGCTGGGCCTGGACATCGAGATCGCCACCTACAGGCGCCTGCTGG  
AGGGCGAGGAGCAGAGGCTATGTGAAGGCATTGGGGCTGTGAATGTCTGTGTGTCAGCAGCTCCCGGGGCGGGTCTG  
TGTGCGGGGACCTCTGCGTGTGAGGCTCCCGGCCAGTACTGGCAGTGTCTGCAGCGCTCCGCTGCAACGGGAAC  
GTGGCGGTGAGCACCGGCCTGTGTGCGCCCTGCGGCCAATTGAACACCACCTGCGGAGGGGGTTCTTGCGGCGTG  
GGCTCCTGTGGTATCAGCTCCCTGGGTGTGGGGTCTTGCAGCAGCAGCTGCCGGAATGTTAGGCACCCCAACTC  
AAGTCCAGGCCCCAGGCGTCTTTCTGCCCCTGCCTTGCTTGGCCCATCCAGTCCAGGCGCCTGGAGCAAGTGCT  
CAGCTACTTCTCCTCCACTTTGAAAGACCCCTCCCACTCCTGGCCTCACATTTCTCTGTGTGATCCCCCACTTC  
TGGGCTCTGCCACCCACAGTGGGAAAGGCACCCTAGAAAGAAGTCCGTGGCACCATAGGAAGGGGCTCAGGAGC  
AGGAAGGGCCAGGACCAGAACCTTGCCACGGCAACTGCCTTCTGCCTCTCCCTTCTCCTCTGCTCTTGATC  
TGTTTTCAATAAATTAATGTAGCC

3894/6881  
**FIGURE 3586**

GCAGAGTCGCGCTCCTCCTCGCCCGCCGCTAGGTCCATCCCGGCCAGCCACCATGTCCATCCACTTCAGTCCC  
CGGTATTACCTCGCGCTCAGCCGCCTTCTCGGGCCGCGGCCAGGTGCGCCTGAGCTCCGCTCGCCCCGGCG  
GCCTTGGCAGCAGCAGCCTCTACGGCCTCGGCGCCTCACGGCCGCGCGTGCCGTGCGCTCTGCCTATGGGGGCC  
CGGTGGGCGCCGGCATCCGCGAGGTACCATTAACCAGAGCCTGCTGGCCCCGCTGCGGCTGGACGCCGACCCCT  
CCCTCCAGCGGGTGCGCCAGGAGGAGAGCGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCATCGACA  
AGGTGCGGTTTCTGGAGCAGCAGAACAAGCTGCTGGAGACCAAGTGGACGCTGCTGCAGGAGCAGAAGTCGGCCA  
AGAGCAGCCGCCTCCCAGACATCTTTGAGGCCAGATTGCTGGCCTTCGGGGTCAGCTTGAGGCACTGCAGGTGG  
ATGGGGCCCGCTGGAGGCGGAGCTGCGGAGCATGCAGGATGTGGTGGAGGACTTCAAGAATAAGTACGAAGATG  
AAATTAACCACCGCACAGCTGCTGAGAATGAGTTTGTGGTGCTGAAGAAGGATGTGGATGCTGCCTACATGAGCA  
AGGTGGAGCTGGAGGCCAAGGTGGATGCCCTGAATGATGAGATCAACTTCCTCAGGACCCTCAATGAGACGGAGT  
TGACAGAGCTGCASTCCAGATCTCCGACACATCTGTGGTGCTGTCCATGGACAACAGTCGCTCCCTGGACCTGG  
ACGGCATCATCGCTGAGGTCAAGGCGCAGTATGAGGAGATGGCCAAATGCAGCCGGGCTGAGGCTGAAGCCTGGT  
ACCAGACCAAGTTTGAAGCCCTCCAGGCCAGGCTGGGAAGCATGGGGACGACCTCCGGAATACCCGGAATGAGA  
TTTCAGAGATGAACCGGGCCATCCAGAGGCTGCAGGCTGAGATCGACAACATCAAGAACCAGCGTGCCAAGTTGG  
AGGCCGCCATTGCCGAGGCTGAGGAGCGTGGGGAGCTGGCGCTCAAGGATGCTCGTGCCAAGCAGGAGGAGCTGG  
AAGCCGCCCTGCAGCGGGGCAAGCAGGATATGGCACGGCAGCTGCGTGAGTACCAGGAACCTCATGAGCGTGAAGC  
TGGCCCTGGACATCGAGATCGCCACCTACCGCAAGCTGCTGGAGGGCGAGGAGAGCCGTTGGCTGGAGATGGAG  
TGGGAGCCCGTGAATATCTCTGTGATGAATCCACTGGTGGCAGTAGCAGTGGCGGTGGCATTGGGCTGACCCTCG  
GGGGAACCATGGGCAGCAATGCCCTGAGCTTCTCCAGCAGTGCGGGTCCTGGGCTCCTGAAGGCTTATTCCATCC  
GGACCGCATCCGCCAGTCGCAGGAGTGGCCGCGACTTGA

3895/6881

**FIGURE 3587**

MSIHFSSPVFTSRSAAFSGRGAQVRLSSARPGGLGSSSLYGLGASRPRVAVRSAYGGPVGAGIREVTINQSLLAP  
LRLDADPSLQVRVQEESQIKTLNNKFASFIDKVRFLEQONKLETKWTLLEQKSAKSSRLPDIFEAQIAGLRG  
QLEALQVDGGRLEAELRSMQDVVEDFKNKYEDEINHRTAAENEFVVLKKDVDAAYMSKVELEAKVDALNDEINFL  
RTLNETELTELQSQISDTSVVLSDNSRSLDLGIIAEVKAQYEEMAKCSRAEAEAWYQTKFETLQAQAGKHGDD  
LRNTRNEISEMNRAIQRLQAEIDNIKNQRAKLEAAIAEAEERGELALKDARAKQEELEAALQRGKQDMARQLREY  
QELMSVKLALDIEIATYRKLEGEESRLAGDGVGAVNISVMNSTGGSSSGGGIGLTLGGTMGSNALSFSSSAGPG  
LLKAYSIRTASASRRSARD

3896/6881  
**FIGURE 3588**

TTCCGGTCCCGGCTCAGCCTCCGACCCAGGTGGTCTGGAGCCTGCCGGGAGAGTGGTGGCATCTGAGAGGCTGGT  
CGTGGACTGTGGTTGGGGGAGGTGGGAGCTGTTTTAACCGTGTGCCCCCTCTCCTGTGCCGGCGTGGGCATCCCC  
CGGGGCAGTGGAACGCGGGCGCTCCTCCAGCTTCCGAGTCCAGCCAGCCTGGGCGCGGGGCGCCGCCCCGAGAC  
ACCCGAGGAGTCCGTTCCCTCCCTGGTTACGTGGACTGTGGAGCTGGTCTCTTGTGGCTCAGCGCCGTGCGGAGGT  
TGAAGCGTACCTGCGGAGGTGCGACCAAGGGCGTGAGGAGGAGGAGGAAGGGCATGAGCCGAGCTTGAGGAATCCG  
TGCTCCAACTCTACACTCAAGGGTGGCCCTTGGGTAGGGTGAAGATCCCCTGTCTTTATCCTAGTTCACACCT  
TGGTGTGGGTTACTGGGTGCAGGATGAAGTGTGCTCGCTCGGAGGTGCTGGAGGTGTCGGTGGAGGGGCGGCAGGTGG  
AGGAGGCCATGCTGGCTGTGCTGCACACGGTGCTTCTGCACCGCAGCACAGGCAAGTTCACCTACAAGAAGGAGG  
GCACCTACTCCACTGGCACCGTGGGCACCCAGGATGTTGACTGTGACTTCATCGACTTCACCTTATGTGCGTGTCT  
CTTCTGAGGAAGTGGATCGTGCCCTGCGCAAGGTTGTTGGGGAGTTCAAGGATGCACTGCGCAACTCTGGTGGCG  
ATGGGCTGGGGCAGATGTCCTTGGAGTTCTACCAGAAGAAGAAGTCTCGCTGGCCATTCTCAGACGAGTGCATCC  
CATGGGAAGTGTGGACGGTCAAGGTGCATGTGGTAGCCCTGGCCACGGAGCAGGAGCGGCAGATCTGCCGGGAGA  
AGGTGGGTGAGAACTCTGCGAGAAGATCATCAACATCGTGGAGGTGATGAATCGGCATGAGTACTTGCCCAAGA  
TGCCACACAGTCGGAGGTGGATAACGTGTTTGACACAGGCTTGCGGGACGTGCAGCCCTACCTGTACAAGATCT  
CCTTCCAGATCACTGATGCCCTGGGCACCTCAGTCACCACCACCATGCGCAGGCTCATCAAAGACACCCCTTGCCC  
TCTGAGCGTCGCTGGATCTCTGGGAGCTCCTTGATGGCTCCCAGACCTTGGCTTTTGGGAATTGCACCTTTGGGC  
CTTTGGGCTCTGGAACCTGCTCTGGGTCAATTGGTGAGACTTGGAAGGGGCAGCCCCGCTGGCTTCTTGTTTTG  
TGGTTGCCAGCCTCAGGTATCCTTTTAATCTTGTGACGGTTCAGTCCTGCCTCTACTGTCTCTCCATAGCCC  
TGGTGGGGTCCCCCTTCTTCTCCACTGTACAGAAGAGCCACCCTGGGATGGGAATAAAGTTGAGAACATG

3897/6881

**FIGURE 3589**

MNCRSEVLEVSVEGRQVEEAMLAVLHTVLLHRSTGKFHYKKEGTYSTGTVGTQDVDCDFIDFTYVRVSSEELDRA  
LRKVVGEFKDALRNSGGDGLGQMSLEFYQKKSRWPFSDCEIPWEVWTVKVHVVALATEQERQICREKVGEKLCE  
KIINIVEVMNRHEYLPKMPTQSEVDNVFDTGLRDVQPYLYKISFQITDALGTSVTTMRRLIKDTLAL



3898/6881  
**FIGURE 3590**

ATGAGCAGACAAGCCAGCAAGACATCTGGTGGCGGGAGCCAGGGTTTCTCCGGCCGCTCTGCTGTGGTCTCCGGC  
AGCAGCAGGATGAGCTGTGTGGCCCACTCTGGGGGAGCTGGCGGAGGGGCCTATGGCTTCCGGAGCGGAGCAGGT  
GGCTTTGGCAGTCGCAGCCTCTACAACCTGGGCGGCAACAAGAGCATCTCCATCAGCGTGGCAGCTGGCGGCTCC  
CGGGCTGGAGGCTTTGGGGGAGGGCGGAGCAGCTGTGCCTTTGCAGGTGGCTATGGAGGTGGCTTTGGGAGCGGC  
TATGGAGGTGGCTTTGGTGGTGGCTTTGGTGGTGGCAGAGGAATGGGAGGTGGCTTTGGTGGAGCTGGTGGCTTT  
GGAGGGGCTGGTGGCTTTGGAGGGGCTGGTGGCTTTGGTGGTCCCTGGTGGCTTTGGTGGGTCTGGTGGCTTTGGT  
GGGCTGGCAGCTTTGGGCAGTCCCTGGTGGCTTTGGCCCTGGGGGCTTTCCCTGGGGGAATTCAGGAAGTGACTATC  
AACCAGAGTCTCCTGCAGCCCCCTCAATGTGGAGATCGACCGCCAGATTGGGCAAGTAAAGGCCAGGAGCGGAAA  
CAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTATTGACAAGGTGCGGTTCCTGGAGCAACAGAACAAAGTC  
CTGGAGACCAAGTGGAACTGCTCCAGCAGCAGGGCACAAGTTCCATCTCAGGCACAAACAACCTTGAGCCTCTT  
TTTGAGAATCACATCAACTACCTGCGGAGCTACCTGGACAACATCCTCGGGGAGAGAGGGGCGCTGGACTCTGAG  
CTGAAGAATGAGAGGACCTGGTGAAGACTTCAAGAAGAAATATGAGGATGAAATCAATAAACGTACAGCTGCT  
GAGAATGAATTTGTGACTCTGAAGAAGGATGTGGACAGTGCCTATATGAACAAGGTGGAGCTTCAGGCCAAAGTG  
GATGCCCTTGATAGATGAGATCGACTTCTTAAGGACCCTCTACGACGCTGAGCTATCTCAGATGCAGAGCCACATC  
AGTGACACATCTGTGGTGTCTCCATGGACAATAATCGCTCCCTGGACCTGGACAGCATCATTGCTGAAGTTTCGT  
GCACAGTATGAGGATATCGCTCAGAGAAGCAAGGCCGAAGCTGAGGCCCTGTACCAGACCAAGTTGGGGGAGCTG  
CAGACCACGGCTGGCAGGCATGGGGATGACCTAAGAAATACCAAGAGCGAGATCATAGAGCTCAACAGAATGATC  
CAGAGGCTGCGGGCAGAGATCGAGGGTGTCAAGAAGCAGAATGCCAACCTGCAGACGGCCATTGCCGAGGCCGAG  
CAGCATGGAGAGATGGCCCTCAAGGATGCCAATGCCAAGCTCCAAGAGCTGCAGGCTGCTCTACAGCAGGCCAAG  
GATGACCTGGCGCGGCTGCTACGTGACTACCAGGAGCTGATGAATGTCAAGCTGGCCCTGGACGTGAGATCCCCC  
CCTACCGCAGCTGCTGGAGGGCGAGGAGTACAGCAGGATGTCTGGAGAGTGTCCGAGTGTCTCAGCATCTCCGT  
GGTCAGCAGCAGCAGCACTTCCGCCTCCGCAGGTGGCTATGGAGGAGGTACGGCGGAGGCATGGGCGGTGGTTT  
AGGAGGTGGCTTCAGTGCGGGCGCGGCTCAGGCAGTGGCTTTGGCCGGGAGGCGGCGGTGGAATCGGCGGTGG  
ATTTGGCGGGCGGCAGCAGCGGTTTCAGCGGTGGCAGCGGCTTTGGCTCCATCTCTGGCGCCCGCTATGGAGTCAG  
TGGCGGGGGCTTCAGCTCGGCCAGCAACCGGGGCGGCAGCATCAAGTTCTCCAGTCTCTCCAGTCTCTCCAGCG  
CTACTCCAGATAAAGAGCACGCATCAGCATCGCAGCCACTCCAGCGCCTCCCTCCGCTCCCCACGCCCCCATAT  
TGGCAACACCCCCAGCGCCACCCCATGCTCCCCAAGAACGCGGCTCTGCGCTGGAAGGCTTGTGGCCTCTTGCTC  
CTCCTTCCAGATCCCCGGCCAAAGCCAGTCACGAGAATTTAGGCTCTTCTCTCCGGCTCCAGCCTGTGCCTGTG  
ATTGTCCAGGTGTGGCCTAGGCCGCCACCTTCTGCTGCCCCGAGTCCCCCTCCCTGGGTGGGATGCTCACTACAG  
CTCTGATGATATATAGCACACAGCCCCCTCCGCCCCCTCCGGTCTGTGCGCAATAAA

3899/6881

## FIGURE 3591

CTGCTCCTTCTAGGATCTCCGCCTGGTTTCGGCCCCGCTGCCTCCACTCCTGCCTCCACCATGTCCATCAGGGTGA  
CCCAGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCGCTCCTACACGAGTGGGCCCCGGTT  
CCCCGATCAGCTCCTCGAGCTTCTCCCGAGTGGGCAGCAGCAACTTTCGCGGTGGCCTGGGCGGCGGCTATGGTG  
GGGCCAGCGGCATGGGAGGCATCACCGCAGTTACGGTCAACCAGAGCCTGCTGAGCCCCCTTGTCTGGAGGTGG  
ACCCCAACATCCAGGCCGTGCGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCCTCCTTCA  
TAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGA  
CGGCTCGAAGCAACATGGACAACATGTTTCGAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCC  
AGGAGAAGCTGAAGCTGGAGGCGGAGCTTGGCAACATGCAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGG  
ATGAGATCAATAAGCGTACAGAGATGGAGAACGAATTTGTCTCATCAAGAAGGATGTGGATGAAGCTTACATGA  
ACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACCGACGAGATCAACTTCCTCAGGCAGCTATATGAAGAGG  
AGATCCGGGAGCTGCAGTCCCAGATCTCGGACACATCTGTGGTGCTGTCCATGGACAACAGCCGCTCCCTGGACA  
TGGACAGCATCATTGCTGAGGTCAAGGCACAGTACGAGGATATTGCCAACCGCAGCCGGGCTGAGGCTGAGAGCA  
TGTACCAGATCAAGTATGAGGAGCTGCAGAGCCTGGCTGGGAAGCACGGGGATGACCTGCGGCGCACAAAGACTG  
AGATCTCTGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAGATTGAGGGCCTCAAAGGCCAGAGGGCTTCCC  
TGGAGGCCGCCATTGCAGATGCCGAGCAGCGTGGAGAGCTGGCCATTAAAGGATGCCAACGCCAAGTTGTCCGAGC  
TGGAGGCCGCCCTGCAGCGGGCCAAGCAGGACATGGCGCGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCA  
AGCTGGCCCTGGACATCGAGATCGCCACCTACAGGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGGA  
TGCAGAACATGAGTATTCATACGAAGACCACAGCGGCTATGCAGGTGGTCTGAGCTCGGCCCTATGGGGGCCCTCA  
CAAGCCCCGGCCTCAGCTACAGCCTGGGCTCCAGCTTTGGCTCTGGCGCGGGCTCCAGCTCCTTCAGCCGCACCA  
GCTCCTCCAGGGCCGTGGTTGTGAAGAAGATCGAGACACGTGATGGGAAGCTGGTGTCTGAGTCTCTGACGTCC  
TGCCCAAGTGAACAGCTGCGGCAGCCCCCTCCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGGGAAGGAGGCC  
GCTATGCAGGGTAGCACTGGGAACAGGAGACCCACCTGAGGCTCAGCCCTAGCCCTCAGCCACCTGGGGAGTTT  
ACTACCTGGGGACCCCCCTTGCCCATGCCCTCAGCTACAAAACAATTCAATTGCTTTTTTTTTTTGGTCCAAAT  
AAAACCTCAGCTAGCTCTGCCAAACCC

3900/6881  
**FIGURE 3592**

MSIRVTQKSYKVSTSGPRAFSSRSYTS GP GSRISSSSF SRVGSSNFRGGLGGGYGGASGMGGITAVTVNQSLSP  
LVLEVDPNIQAVRTQEKEQIKTLNNKFASFIDKVRFLEQQNKMLETKWSLLQQQKTARSNMDNMFESYINNLRQ  
LETLGQEKLEAE LGNMQGLVEDFKNKYEDEINKRTEMENEFVLIKKDVDEAYMNKVELESRLGLTDEINFLR  
QLYEEEIRELQSQISDTSVVL SMDNSRSLDMSIIAEVKAQYEDIANRSRAEAE SMYQIKYEELQSLAGKHGDDL  
RRTKTEISEMNRNISRLQAEIEGLKGQRASLEAAIADAEQRGELAIKDANAKLSELEAALQRAQDMARQLREYQ  
ELMNVKLALDIEIATYRKLEGEESRLESGMQNMSIHTKTTSGYAGGLSSAYGGLTSPGLSYSLGSSFGSGAGSS  
SFSRTSSRAVVVKIETRDGKLVSESSDVLPK

3901/6881  
**FIGURE 3593**

CGGGGTCGTCCGCAAAGCCTGAGTCCTGTCCTTTCTCTCTCCCCGGACAGCATGAGCTTCACCACTCGCTCCACC  
TTCTCCACCAACTACCGGTCCCTGGGCTCTGTCCAGGCGCCCAGCTACGGCGCCCGGCGGTTCAGCAGCGCGGCC  
AGCGTCTATGCAGGCGCTGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCAGGGGCGGCATG  
GGGTCCGGGGGCTGGCCACCGGGATAGCCGGGGTCTGGCAGGAATGGGAGGCATCCAGAACGAGAAGGAGACC  
ATGCAAAGCCTGAACGACCGCCTGGCCTCTTACCTGGACAGAGTGAGGAGCCTGGAGACCGAGAACCGGAGGCTG  
GAGAGCAAAATCCGGGAGCACTTGGAGAAGAAGGGACCCCAGGTCAGAGACTGGAGCCATTACTTCAAGATCATC  
GAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCCGCATCGTTCTGCAGATTGACAATGCCCGT  
CTTGCTGCTGATGACTTTAGAGTCAAGTATGAGACAGAGCTGGCCATGCGCCAGTCTGTGGAGAACGACATCCAT  
GGGCTCCGCAAGGTCATTGATGACACCAATATCACACGACTGCAGCTGGAGACAGAGATCGAGGCTCTCAAGGAG  
GAGCTGCTCTTCATGAAGAAGAACCACGAAGAGGAAGTAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTG  
ACCGTGGAGGTAGATGCCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCAATATGACGAG  
CTGGCTCGGAAGAACCGAGAGGAGCTAGACAAGTACTGGTCTCAGCAGATTGAGGAGAGCACCACAGTGGTCACC  
ACACAGTCTGCTGAGGTTGGAGCTGCTGAGACGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCCTTGGAGATC  
GACCTGGACTCCATGAGAAATCTGAAGGCCAGCTTGGAGAACAGCCTGAGGGAGGTGGAGGCCCGCTACGCCCTA  
CAGATGGAGCAGCTCAACGGGATCCTGCTGCACCTTGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGACAGCGC  
CAGGCCCAGGAGTATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCTG  
CTGGAAGATGGCGAGGACTTTAATCTTGGTGATGCCTTGGACAGCAGCAACTCCATGCAAACCATCCAAAAGACC  
ACCACCCGCGGATAGTGGATGGCAAAGTGGTGTCTGAGACCAATGACACCAAAGTTCTGAGGCATTAAGCCAGC  
AGAAGCAGGGTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTTCAGAGTTCATTGGATGTC

3902/6881  
**FIGURE 3594**

MSFTTRSTFSTNYRSLGSVQAPSYGARPVSSAASVYAGAGGSGSRISVSRSTSFRGGMGSGGLATGIAGGLAGMG  
GIQNEKETMQSLNDRLASYLDRVRSLETENRRLESKIREHLEKKGPQVRDWSHYFKIIEDLRAQIFANTVDNARI  
VLQIDNARLAADDFRVKYETELAMRQSVENDIHGLRKVIDDTNITRLQLETEIEALKEELLFMKKNHEEEVKGLQ  
AQIASSGLTVEVDAPKSQDLAKIMADIRAQYDELARKNREELDKYWSQQIEESTTVVTTQSAEVGAAETTLTEL  
RTVQSLEIDLDSMRNLKASLENSLREVEARYALQMEQLNGILLHLESELAQTRAEGORQAQEYEALLNIKVKLEA  
EIATYRRILLEDGEDFNLGDALDSSNSMQTIQKTTTTRIVDGKVVSETNDTKVLRH

3903/6881  
**FIGURE 3595**

AGATAAGAGCTGGACGGAGGCTAAAGCGGCAGCCCCAGCTTCGCGCCCCGCCAGTCCCTTTCCCTGCTGGGGA  
TCCCCCTCTTCCCCGCCACCCCTTACCCGCATGCAGCCAGCGCCCTATGCTAGCCCTCCCCCTCCCCCTG  
CTGGAGCGGGGCGCCCGGGGGAGGAGGGGAATCGGCTGCGGGTCCTTGGTGTTCAGCACCCAGTTTCCT  
TCAAGCCGGGTGCGCATGTACGACTGTATGAAACGTTTCCCCGGGTCCGCGACGGCTGTACGGGGCGGCCGG  
CCCCGGGCCGGCTTGCTGCGCAGAGCCACCGCGGCTCCTGTTTCGCCGACTTGAATCTTTGCTGGCCGCAA  
CCCCCAGCCTGCAATCGGTGGAGACACAGAGCACCAGCTCAGAGGAGATGGTGGCCAGCTCGCCCTCGCCCCCT  
CCGCTCCTCGGGTCTACAAGCCATGCTTCGTGTGAATGACAAGTCCTCTGGCTACCACTATGGGGTCAGCTCT  
TGTGAAGGCTGCAAGGGCTTCTTTGCGCGAAGCATCCAGAAGAATGTTGTACACGTGTACCCGCGACAAAAC  
TGTATCATCAACAAGGTGACCAGGAATCGCTGCCAGTACTGCCGGCTACAGAAGTGCTTCGAAGTGGGCATGTCC  
AAGGAAGCTGTGCGAAATGACCGGAACAAGAAGAAGAGGTGAAGGAAGAAGGGTCACCTGACAGCTATGAG  
CTGAGCCCTCAGTTAGAAGAGCTCATCACAAGGTGAGCAAGCCCATCAGGAGACTTTCCCTCGCTCTGCCAG  
CTGGGCAAGTATACCACGAAGTCCAGTGCAGACCACCGCTGCAGCTGGATCTGGGGCTGTGGGACAAGTTCAGT  
GAGCTGGCTACCAAGTGCATCATCAAGATCGTGGAGTTTGCCAAGCGGTTGCCTGGCTTTACAGGGCTCAGCATT  
GCTGACCAGATCACTCTGCTCAAAGCTGCCTGCCTAGATATCTGATGCTGCGTATCTGCACAAGGTACACCCA  
GAGCAGGACACCATGACCTTCTCCGACGGGCTGACCCTGAACCGGACCCAGATGCACAATGCCGGCTTCGGGCCC  
CTCACAGACCTTGTCTTTGCTTTGCTGGGCAGCTCCTGCCCTGGAGATGGATGACACCGAGACAGGGCTGCTC  
AGCGCCATCTGCCTCATCTGCGGAGACCGCATGGACCTGGAGGAGCCCGAAAAAGTGGACAAGCTGCAGGAGCCA  
CTGCTGGAAGCCCTGAGGCTGTACGCCCGCGCGCGGCCAGCCAGCCCTACATGTTCCCAAGGATGCTAATG  
AAAATACCGACCTCCGGGGCATCAGCACTAAGGGAGCTGAAAGGGCCATTACTCTGAAGATGGAGATTCCAGGC  
CCGATGCCCTCCCTTAATCCGAGAGATGTGGAGAACCCTGAAATGTTTGAGGATGACTCCTCGCAGCCTGGTCCC  
CACCCAATGCCTCTAGCGAGGATGAGGTTCTGGGGGCCAGGGCAAAGGGGGCCTGAAGTCCCAGCCTGACCA  
GGGCCCCTGACCTCCCCGCTGTGGGGGTTGGGGCTTCAGGCAGCAGACTGACCATCTCCAGACCGCCAGTGACT  
GGGGGAGGACCTGCTCTGCCCTCTCCCCACCCCTTCCAATGAGCTCCTTGTTTTGCCAAAGTTTCTAGGGGTGC  
CTCTGTGTTTCATCCCTTCCCTGATCTAACC GGCTCCCTCGCCAGTCCCGGGGGCTGCCCTGCTCCCACCAGGAG  
AGAGGGCAAAGGGATGAGCCTGGGTTTGACTCTAAAATCTCAGCACTGCCCATGGGTCTTAGACTTCCCAGGG  
CAAGAGGAAGACCTGCCATTCCACAGCCCTTCCCTCTGCCAGGTGCTTGGCTCTCTGAGAGCAAACAGGAACAC  
TAGAGACCAAAAAGGGGACAAAGGAGAAGGGCTGAGCCACCTTCTTGCTCCTACCCCTGGTGCCTAATGCTGTG  
TGATGCACCTGCAGGGTGTGTGCTAGCCTCTGTGCCCGTCCTTGTGCCAGGTCAAGGTGGGGGCAGGCTGGGCC  
CTGCATTTCTGGGGCAGGAACAGAGGGTGAAAGGGACAGATAGATGCAGGTCCATTCTGCACCTCTTGGCTCGGG  
TGCAGAGTTACCCCTGTGCCCTCCGTTATAAGTCCCTCCCCAGCCCTGTCATGTGCCCTTGGGCTCCTCCTGCC  
TCCATCTCAGCCATTGGGGCAGGGACCCCTCCTACACTACAGAGGGGCCAGGGGATCCCTCTCTCCCTAGTGCCCT  
CCACCCCTTACTCCCAGAGCAGCTTGCCCCAGGGAGGGGGATGCTGCTTAGCTGATCCCGCCCTGACCCAGAG  
GAAGCCTCTATTTATTTATTAGCTTTTGTTCACCGTGGAATTGACCCCTTCCCTCCAGGGGTCTTGGGTGGGGG  
AGCCCAGGGCCCCCTGTGACCCCTCCTTTCTTCCCTCCAATCCCCAGTTTGTATTTAGCTGCCAAATAAGATTCCCA  
TTGGCTCCCTGTGTTCTTGGGGGGTCAGGGTGCTGTCCCTCCCTCTGTTTACATCTCCCTCTACCCCGCT  
GTATCGCATATTGCTGAGTTTTCTATTTTGTGAAAATAAAGTGATGGAACTC

3904/6881  
**FIGURE 3596**

AGTTTCTAAGGATCATGTCTGCGAGCCAGGATTCTGATCCAGAGACAACGGCCCCAATGGGATGGAGCCCCAAAG  
GTGTCATTGAGAGTAACCTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCAGAGTCCCTTCTCCGTG  
GCATCTACGCCTATGGTTTAGAGAAGCCGCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTATC  
ACGTGATTGCTCAAGCCCCAATCTGGGGCTGGGAAAATGGCCACATTTGCCATATTGATTCTGCAGCAGATTGAAT  
TAGATCTAAAAGCCACCCAGGCCTTGCTCCTAGCACCCACTCAAGAATTGGCTCAGCAGATACAGAAGGTGGTCA  
TGGCACTAGGAGACTACATGGGTGCCTCCTGTGTCATGCCTGTATCAGGGGCACCAACATGCGTGCTGAGGTGCAGA  
AACTGCAGACGAAGCTCCTCACATCATTGTGGGTACCCCTGGCCATGTGTTTGATATGCTTAACGGGAGATACCT  
GTCTCCCAAATACATCAAGATGTTTGTACTGGACGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGAT  
CTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTGTCTGTCAGCTGCGATGCCTTCTGATGTGCT  
TGAGGTGACCAAGAAGTTCATGAGGGACCTCATTGCGATTCTTGTACGAAGGAAGTGTGACCTTGGAGGGTAT  
CCGCCAATTCTACATCAATTTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCCTGAC  
CATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAG  
ATTTCACTGTCTTCACCATTTCGTGGAGATATGGACCAAAACGAACAAGACGTGATCTTGAGGGAGTTTCGTTATG  
GCTCTAGCAGTTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAACAGGTTTCTTTAGTCACCAAC  
TATGACCTTCCCACCAACAGGGAAAACCATATCCATAGAATCGGTGAGGTGGACGGTTTGGCCGTAAAGGTGTG  
GCTATTAACGTGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATCGAGATCTTCTACAACCTCCTCCATTGAG  
GAAATGCCCCCTCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCTATCTCG  
GGGGGCTGAGGAGCAGCAGGAGTGAGGGAGGGAAGGGAGCCAAGGGATGGACATCTTGTCATTTTTTTCTTTGAAT  
AAATGTCACTTTTTTGAGGCAAAA

3905/6881  
**FIGURE 3597**

MEPKGVIESNWN EIVDSFDDMNLSESLLRGIYAYGLEKPSAIQQRAILPCIKGYHVIAQAQSGAGKMATFAILIL  
QQIELDLKATQALLLAPTQELAQQIQKVVMA LGDYM GASCHACIRGTNMRAEVQKLQTKLLTSLWVPLAMCLICL  
TGDTCLPFGFLSRRKC



3906/6881

**FIGURE 3598**

GGAGGACTGGGTGCGCGTGCAGGGATCGGAAGCCGTTGGAGTGTGTGAGGTTTTCTCGCTCTAGGGAGATTCTT  
CAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAACTTATT  
GGAAAAGCTAAAGAGGCACCATTTGTACCCGTTGGAATAGCAGGTTTGCAGCAATTGTTGCATATGGATTATAC  
AAACTGAAGAGCAGGGGAAATATAAAATGTCCATTTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCTTTGTT  
GTAGGAGCAATGACTGTTGGTATGGGCTACTTCATGTATCGGGAATTCTGGGCAAAACCTAAGCCTTAGAAGAAG  
AGATGCTGTCTTGGTCTTGTGGACGAGCTTGCTTTAGTTAGACGTCTCATTATTGAAGTTACTATTATTGTTGG  
AAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCTTGCAGGCTTGAT  
TTGCCTGGTGACCAAATTACTAGTAGTACTAGTTTACTAACTAGGTCATTAAAGGAAGTCAAGTTAACTTAAACACG  
TCAACTAAACGCACTTGATGGTGTGAAATGTCCACCTTCCTAAATTTTAAGATGAACTGAGTTCTAAAGAAGA  
TAACAGGCCAATCCTGAAGGTACTCCAGTTTGCTGCAGAATCTCACATATTTTGGATGTTGTATAAGAGTCCTA  
TTTGCCCCAGTTAATTCAACTTTTGTCTGCCTGTTCTGTGGACTGGCTGGCTCTGTTAGAACTCTGTCCAAAAG  
TGCATGGAATATAACTTGTAAAGCTTCCACAAATTGACAATATATGTGCATGTGTTTAAGCCAAATCCAGAAAGC  
TTAAACAATAGAGCTGCATAATAGTATTTATTAAAGAATCACAACTGTAAACATGAGAATAACTTAAGGATTCTA  
GTTTAGTTTTTTGTAATTGCAAATTATATTTTGTGCTGATATATTAGAATAATTTTAAATGTCATCTTGAAA  
TAGAAATATGTATTTTAAGCACTCATGCAAAGGTAAATGAACACTTTTAAATGTGTGTTGCTTATTTTTTCCAT  
AAGAATTGTAAACATTGAACTGAACAAATTACCTATAATGGATTTGATTAAATGACTAATGAGCAAGCGGGTTGG  
CCAGACAGTATACCCAACTTTTATATAGTATACAGAAGGCTATCACACTTGTGAAATTCTCTTGTCTAATCCGA  
ATTTGCATTCCATGGTGATAACATGGTATATGTATTGTTATTAAAGTAAGTGACCCATGTC

3907/6881

**FIGURE 3599**

GGAGGACTGGGTGCGCGTGCAGGGATCGGAAGCCGGTTGGAGTGTGTGAGGTTTTCTCGCTCTAGGGAGATTCTT  
CAAGCAATCACTATGTCAACAGACACAGGTGTTTCCCTTCCTTCAIATGAGGAAGATCAGGGATCAAACTTATT  
GGAAAAGCTAAAGAGGCACCATTTGTACCCGTTGGAATAGCAGGTTTTGCAGCAATTGTTGCATATGGATTATAC  
AAACTGAAGAGCAGGGGAAATACTAAATGTCCATTCACTGTATCCACATGCGTGTGGCAGCCCAAGGCTTTGTT  
GTAGGAGCAATGACTGTTGGTATGGGCTACTTCATGTATCGGGAATTCTGGGCCTTTAGTTAGACGTCTCATTAT  
TGAAGTTACTATTATTGTTGGAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGC  
TTCCTTTCTTGCAGGCTTGATTTGCCTGGTGACCAAATTACTAGTGACTAGTTTACTAACTAGGTCATTAAAGGA  
AGTCAAGTTAACTTAAACACGTCAACTAAACGCACCTTGATGGTGTGAAATGTCCACCTTCTTAAATTT

3908/6881  
**FIGURE 3600**

GCAGCTGCGCTGCGACTGCTCTGGAAGGAGAGGACGGGGCACAAACCCTGACCAATGACCCCCACAGGCTGCTGC  
CACCGCTGCTGCTGCTGCTAGCTCTGCTGCTCGCTGCCAGCCCAGGAGGCGCCTTGCGCGGGTGCCCAGGCTGCG  
GGCAAGGGGTGCAGGCGGGTTGTCCAGGGGGCTGCGTGGAGGAGGAGGATGGGGGGTCGCCAGCCGAGGGCTGCG  
CGGAAGCTGAGGGCTGTCTCAGGAGGGAGGGGCAGGAGTGCGGGGTCTACACCCCTAACTGCGCCCCAGGACTGC  
AGTGCCATCCGCCC AAGGACGACGAGGCGCCTTTGCGGGCGCTGCTGCTCGGCCGAGGCCGCTGCCTTCCGCCCC  
GCGCGCCTGCTGTGTCAGAGGAGAATCCTAAGGAGAGTAAACCCCAAGCAGGCACTGCCC GCCCACAGGATGTGA  
ACCGCAGAGACCAACAGAGGAATCCAGGCACCTCTACCACGCCCTCCAGCCCAATTCTGCGGGTGTCCAAGACA  
CTGAGATGGGCCCATGCCGTAGACATCTGGACTCAGTGCTGCAGCAACTCCAGACTGAGGTCTACCGAGGGGCTC  
AAACACTCTACGTGCCCCAATTGTGACCATCGAGGCTTCTACCGGAAGCGGCAGTGCCGCTCCTCCAGGGGCAGC  
GCCGAGGTCCCTGCTGGTGTGTGGATCGGATGGGCAAGTCCCTGCCAGGGTCTCCAGATGGCAATGGAAGCTCCT  
CCTGCCCCACTGGGAGTAGCGGCTAAAGCTGGGGGATAGAGGGGCTGCAGGGCCACTGGAAGGAACATGGAGCTG  
TCATCACTCAACAAAAAACCGAGGCCCTCAATCCACCTTCAGGCCCGCCCCATGGGGCCCTCACCGCTGGTTGG  
AAAGAGTGTGTTGGTGTGGCTGGGGTGTCAATAAAGCTGTGCTTGGGGTCAAA

3909/6881  
**FIGURE 3601**

MTPHRLLPPLLLLLLALLLAASPGGALARCPGCGQGVQAGCPGGCVEEEDGGSPAEGCAEAEGCLRREGQECGVYT  
PNCAPGLQCHPPKDDEAPLRALLLGRGRCLPARAPAVAEENPKESKPQAGTARFQDVNRRDQQRNPGTSTTPSQP  
NSAGVQDTEMGPCRRHLDVLLQQLQTEVYRGAQTLYVPNCDHGRGFYRKRQCRSSQGQRRGPCWCVDRMGKSLPGS  
PDGNGSSSCPTGSSG

3910/6881  
**FIGURE 3602A**

GCTGGCCGCTCTGCGCACCTCTCTCCCCTCGGCTCTTTCTAGGAAAGCTGAGCCTCATAGCTTCCGGGAGAAGG  
TTTTCCGGAAGAAACCTCCAGTCTGTGCAGTATGTAAGGTGACCATCGATGGGACAGGCGTTTCGTGCAGAGTCT  
GCAAGGTGGCGACGCACAGAAAATGTGAAGCAAAGGTGACTTCAGCCTGTGAGGCCCTTGCCCTCCCGTGGAGTTGC  
GGCGAAACACGGCCCCAGTCAGGCGCATAGAGCACCTGGGATCCACCAAATCTCTGAACCACTCAAAGCAGCGCA  
GCACTCTGCCCAGGAGCTTCAGCCTGGACCCGCTCATGGAGCGGCGCTGGGACTTAGACCTCACCTACGTGACGG  
AGCGCATCTTGCCGCGCGCCTTCCCCGCGCGGCCCGATGAACAGCGGCACCGGGGCCACCTGCGCGAGCTGGCCC  
ATGTGCTGCAATCCAAGCACCGGGACAAGTACCTGCTCTTCAACCTTTCAGAGAAAAGGCATGACCTGACCCGCT  
TAAACCCCAAGGTTCAAGACTTCGGCTGGCCTGAGCTGCATGCTCCACCCCTGGACAAGCTGTGCTCCATCTGCA  
AAGCCATGGAGACATGGCTCAGTGTGACCCACAGCACGTGGTCTACTATACTGCAAGGGAAACAAGGGCAAGC  
TTGGGGTCATCGTTTCTGCCTACATGCACTACAGCAAGATCTCTGCAGGGGCGGACCAGGCACTGGCCACTCTTA  
CCATGCGGAAATCTGCGAGGACAAGGTGGCCACAGAACTGCAGCCCTCCAGCGTCGATATATCAGCTACTTCA  
GTGGGCTGCTATCTGGCTCCATCAGAATGAACAGCAGCCCTCTCTTCTGCACTATGTGCTCATCCCCATGCTGC  
CAGCCTTTGAACCTGGCACAGGCTTCCAGCCCTTCTTAAAATCTACCACTCCATGCAGCTGTCTACACATCTG  
GAGTCTATCACATTGACAGGCCCTGGTCCCCAGCAGCTTTCATCAGCCTGGAGCCAGCCCTCCTCCTCAAAGGCG  
ATGTCATGGTAACATGTTATCACAAAGGTGGCCGGGGCACAGACCGGACCCTCGTGTTCGAGTCCAGTTCCACA  
CCTGCACCATCCACGGACCACAGCTCACTTTCCCAAGGACCAGCTTGACGAGGCTGGACTGATGAGAGGTTCC  
CCTTCCAAGCCTCCGTGGAGTTTGTCTTCTCTCCAGCCCCGAGAAGATCAAAGGCAGCACTCCACGGAACGACC  
CCTGGGTCTCTGTGCTACTACAACACCACTGAGCCAGCCGTGCGCTGGGACTCCTATGAGAACTCAACAGCACC  
ACGAGGACAGTGTGGATGGCTCCTTGACCCACACCCGGGTCCCCCTGGATGGCAGTCTTATGCCCAGGTGCAGC  
GGCTCCCCGGCAGACCCCCCGGCACCCCTCTCCAGAGCCTCCACCACCCCCCATGCTCTCTGTGACGAGCGACT  
CAGGCCATTCTCCACGCTGACCACAGAGCCGGCTGTGAGTCCCCTGGCCGGCCGCCCCCTACAGCTGCTGAAC  
GGCAGGAGCTGGATCGCTCCTAGGAGGCTGCGGAGTGGCCAGTGGGGGCGGGGAGCTGGGCGCGAGACGGCCA  
TCCTAGATGACGAAGAGCAGCCCACTGTGGGCGGAGGCCCCACCTCGGAGTGTATCCAGGCCATAGGCCCTGGCC  
TCAGCCGCCACTGCTCTGCGCCAGGGCTACCGGGAGCCCTGCGGGGTTCCTAATGGGGGCTACTACCGGCCAG  
AGGGAACCTTGAGAGGAGGCGACTGGCCTACGGGGGCTATGAGGGATCCCCCAGGGCTACGGCGAGAGCCCTCGA  
TGGAGAAGAGGCGCCTCTGCCGATCGCTGTGAGAGGGGCTATACCCCTACCCACCTGAGATGGGGAACAGCCA  
CTGGGGACTTTGGCTACCGCGCCCCAGGCTACCGGGAGGTGGTCTCTGAGGAGCCCTGGGCTGCTGCCCCAT  
ACCCATGCCCAGCCTGCGAGGAGAAGCTGGCGCTGCCTACAGCAGCCTTGTATGACTGCGGCTGGAGAGGGAGG  
CTGGAGAAGGGTGGGCAAGTGAGGCTGGCAAGCCTCTCTGCAACCCAGTGGGCTGGGCAACCCGCTGCTCTGC  
TCTTGCTGCTGTGGGCATCACCATGCCCCGATGCCTGACTACAGCTGCCTGAAGCCACCAAGGCAGGCGAGG  
AAGGGCAGGAGGCTGCTCTACACCATGTGCCCCGAAGGCAGGTATGGGCATCCAGGGTACCCTGCCCTGGTGA  
CATACAGCTATGGAGGAGCAGTTCAGTTACTGCCCAGCATATGGCCGTGTGCTCATAGCTGTGGCTCTCCAG  
GAGAGGGCAGAGGGTATCCAGCCCTGGTGCCCACTCCCCACGGGCTGGCTCCATTCCCCGGGCAGCCCGCCT  
ATCCACAATCTAGGAAGCTGAGCTACGAGATCCCTACGGAGGAGGGAGGGACAGGTACCCATTGCTTGGGCACC  
TGGCCTCAGCAGGACCTTTGGCATCTGCAGAGTCGCTGGAGCCGCTGTCTGAGGAGGGGCCCCAGTGGGCACA  
GCACACTGCTCGGTCTCCCCGAGATGCCCCATGCAGTCTTCGTGAGAGTTGTCTGGTCCCTCCACGCCCCCTGC  
ACACCAGCAGTCCAGTCCAGGGCAAGGAAAGCACCCGGCGACAGGACACCAGGTCCCCACCTCAGCGCCCACTC  
AGAGACTGAGTCTGGCGAGGCTTGCCCCCTGTTTCCAGGCAGGCACCGGAAAGGCCCTGAGCTGCCGTGCG  
GAAGTGGGCTGAGCCTCTGGCCCCCTAGCCAGTCTCTCCGACCTTCCCTCCAGCTCGCCCACTGAGTGGCCTC  
AGGAAAGGAGTCCAGGGGGCCACTCAGATGGCGCCAGTCTCTCGGAGCCCTGTGCCCCACCACTTCTGGCCTCC  
GCCACGCCCCCTGGCAAGGCCCTCGAGGCCCCCGACAGCCAGATGGGTCTCCCTCACTCTGTGCTTCCC  
AGATGCCCTGGCTGTGGCCAGCCAGCGCCCTCAGAGCTCACCTACACCTGCTTTCCCCCTGGCTGCCCTCT  
ATGACACCAATGGCCTTAGCCAGCCCCCACTTCTGAGAAACGCCACCTGCCCGGGCCGGGGCAACAGCCAGGAC  
CCTGGGGCCAGAGCAGGCATCATCGCCAGCCAGAGCATCAGTACCATGTACCTTCGCACCTCTGCTCTCAG  
ATAATGTCCCCCAAACCCAGAGCCTCTACACAAGAGAGCCAAAGCAATGTCAAGTTTGTCCAGGATACATCCA  
AGTTCTGGTACAAGCCACACCTGTCCCGTGACCAAGCCATTGCCCTGCTGAAGGACAAGGACCCCTGGGGCCTTCC  
TGATCAGGGACAGTCATTTCATCCAAGGAGCTTATGGGCTGGCCCTCAAGGTGGCCACACCGCCACCCAGTGGCC  
AGCCCTGGAAAGGGGACCCCGTGGAACAGCTGGTCCGCCATTTCTCATCGAGACTGGGCCCCAAAGGGGTGAAGA

3911/6881  
**FIGURE 3602B**

TCAAGGGCTGCCCCAGTGAGCCCTACTTTGGCAGCCTGTCCGCCTTGGTCTCCCAGCACTCCATCTCCCCATCT  
CCCTGCCCTGCTGCCTGCGCATTCCCAGCAAAGATCCTCTGGAAGAGACCCCAGAGGCTCCAGTGCCCAACA  
TGAGCACAGCGGCAGACCTCCTGCGTCAGGGTGCTGCCTGCAGCGTGCTCTACTTGACCTCAGTGGAGACAGAGT  
CACTGACGGGGCCCCAAGCTGTGGCCCGGGCCAGCTCTGCAGCTCTGAGCTGTAGCCCCCGCCGACACCAGCTG  
TTGTCCACTTCAAGGTGTCAGCCCAGGGCATTACACTGACGGACAACCAAAGGAAGCTCTTCTTCGCCGCCATT  
ATCCAGTGAACAGCATCACCTTCTCCAGCACTGACCCTCAAGACCGGAGATGGACCAACCCAGACGGGACCACCT  
CCAAGATCTTTGGTTTCGTGGCCAAGAAGCCGGGAAGCCCTGGGAGAATGTGTGTACCTCTTTGCAGAGCTTG  
ACCCAGATCAGCCTGTGGCGCCATTGTACCTTCATCACCAAAGTTCTACTGGGCCAGAGAAAATGAAGGAAGG  
CCACAAGCTCAGAGCCACATCAACACTGCCCCCTCCCAGCACCCACAGCCCTCACATCCCTGGCCTGGACC  
CAGGAGACCCAGGAGAAAGCACCTCCCTTAGGAATGAGGAGTGGGCATCAGGCCTGGGACACTGCTCTCCTTCC  
CCGCCCCAGCCTGCTAAGTTAAGTGGACAGGCCCAAGATGACCTTGCAATGTGAGCAGATGGCAGAGATGGGT  
GTGTGAGGGGTGAGGAGGCATCAGCAGTTGAGCCCCGAAGGAGATCAGGCAGCCCCACCTGCAGGAGAACGTCAG  
CCCTCCAGGGGATCAGCCCCTGCCAGTTCCACCCAGCTGCAGGTGCCAGCACGGCAGGGATGGGAGAGGGGTGGG  
GAGCGAGTCACTGCCTCCTCTGAGCAGAGATTCAGAGTAGGATCACATGAATAGGGGAAAAAAGAGAGTCTATTT  
TTGTCTAATAATAAAGAATTTCTATAAACTTT

3912/6881  
**FIGURE 3603**

MKSSGPVERLLRALGRRDSSRAASRPRKAEPHSFREKVFRKKPPVCAVCKVTIDGTGVSCRVCVATHRKCEAKV  
TSACQALPPVELRRNTAPVRRIEHLGSTKSLNHSKQRSTLRSFSLDPLMERRWDLDTYVTERILAAAFPARPD  
EQRHRGHLRELAHVLSKHRDKYLLFNLSEKRHDLTRLNPKVQDFGWPELHAPPLDKLCSICKAMETWLSADPQH  
VVVLYCKGNKGKLGVIUSAYMHYSKISAGADQALATLTMRKFCEDKVATELQPSQRRYISYFSGLLSGSIRMNSS  
PLFLHYVLIPMLPAFEPGTGFQPFLLKIYQSMQLVYTSGVYHIAGPGPQQLCISLEPALLLKGDVMVTCYHKGGRG  
TDRTLVFRVQFHTCTIHGPQLTFPKDQLDEAWTDERFPFQASVEFVFSSSPEKIKGSTPRNDPSVSDYNTTEPA  
VRWDSYENFNQHHEDSVDGSLTHTRGPLDGSPYAQVQRPPRQTPPAPSPEPPPPMMLSVSSDSGHSSTLTTEPAA  
ESPGRPPTAAERQELDRLLGGCGVASGGRGAGRETAILDDEEQPTVGGGPHLGVPYGHRLPGLSRHCSCRQGYRE  
PCGVNNGGYRPEGTLERRRLAYGGYEGSPQGYAEASMEKRRLCRSLSEGLYPYPPEMGKPATGDFGYRAPGYRE  
VVILEDPLPALYPCPACEEKLALPTAALYGLRLEREAGEGWASEAGKPLLHPVRPGHPLPLLLPACGHHHAPMP  
DYSCLKPPKAGEEGHEGCSYTMCEGGRYGHGYPALVTYSYGGAVPSYCPAYGRVPHSCGSPGEGRGYPSPGAHS  
PRAGSISPGSPYPYQSRKLSYEIPTEEGGDRYPLPGHLASAGPLASAESLEPVSWREGPSGHSTLPRSPRDAPCS  
ASSELSPSTPLHTSSPVQKESTRRQDTRSPTSAPTQRLSPGEALPPVSQAGTGKAPELPSGSGPEPLAPSPVS  
PTFPPSSPSDWPQERSPGGHS DGASPRSPVPTTLPLGRHAPWQGPGRGPPDSPDGSPLTPVPSQMPWLVASPEPPQ  
SSPTPAFPLAASYDTNGLSQPPLPEKRHLPGPGQPGWGPQASSPARGISHHVTFAPLLSDNVFQTPEPPTQE  
SQSNVKFVQDTSKFWYKPHLSRDQAIALLKDKDPGAFLIRDSHSFQAYGLALKVATPPPSAQPWKGDPEQLVR  
HFLIETGPKGVKIKGCPSEPYFGSLALVSQHSISPISLPCCLRIPSKDPLEETPEAPVPTNMSTAADLLRQGAA  
CSVLYLTSVETESLTGPQAVARASSAALSCSPRPTPAVVHFVSAQGITLTDNQKLFRRHYPVNSITFSSTDP  
QDRRWTPDGTTSKIFGFVAKKPGSPWENVCHLFAELDPDQPAIAIVTFITKVLLGQRK

3913/6881  
**FIGURE 3604**

AAATCTAGCCCCGGGAACCGAGTTGCGGGAGTGCGGTCTGTGCCGTTCCGGCCAGGAGTTTGCCGACTGCAGACGTC  
CTGCGAACCGGCAAGATGTGCTCTCTGCGGTGTTGTTCCCTCCTCCACCGCCTCGGGGTCAAGTCACCCTATATGAG  
CACAATAACGAGCTGGTGACGGGCAGTAGCTATGAGAGCCCCGCCCCGACTTCCGGGGCCAGTGGATCAATCTT  
CCTGTCCTACAACCTGACAAAGGATCCCCCTAAAGACCCCTGGAAGGCTGGACCATGGCACAAGAAGTGCCTTCATC  
CATCACCGGGAGCAAGTGTGGAAGAGATGCATCAACATTTGGCGTGATGTGGGCCTTTTGGGGTGCTAAATGAA  
ATTGCAAACCTCAGAAGAAGAGGTGTTTGTAGTGGGTGAAGACGGCATCCGGCTGGGCCCTGGCACTCTGTTCGATGG  
GCCTCTTCCCTCCATGGGTCCCTGTTCCCCCATCTGTCTCTCAGGAGCGAAGATCTGATCGCTGAATTTGCCCAA  
GTCACAAATTGGTCCAGCTGCTGCTTGCCTGTCTTTGCATGGCACCCCCACACCAACAAGTTTGCAGTGGCCCTG  
CTAGATGACTCAGTCCGTGTGTATAATGCCAGCAGCACCATAGTCCCTCCTGAAGCACCGGCTGCAGCGAAAT  
GTGGCGTCTCTGGCCTGGAAGCCCCCTTAGTGCCCTCTGTCTTGGCTGTGGCCTGCCAGAGCTGCATTCTTATCTGG  
ACCTTGGACCCCTACCTCCTTGTCTACCCGACCCCTTCTGGCTGTGCCCAAGTGTCTCTCACCTGGGCATACA  
CCTGTTACAGCTTGGCCTGGGCCCCCCAGTGGGGGGCGGCTGCTCTCAGCTTCACCCGTGGATGCTGTATCCGG  
GTATGGGATGTCTCAACAGAGACCTGTGTCCCCCTTCCCTGGTTCCGAGGAGGTGGGGTGACCAACCTGCTCTGG  
TCCCCAGACGGCAGCAAAATCCTGGCTACCACTCCTTCAGCTGTCTTTCGAGTCTGGGAGGCCCAGATGTGGACT  
TGTGAGAGGTGGCCTACTCTATCAGGGCGCTGTGAGACTGGCTGCTGGAGCCCAGATGGCAGCCGACTGCTGTTC  
ACTGTATTGGGAGAGCCACTGATTTACTCCCTGTCTTTTCCAGAACGTTGTGGTGAGGGAAAGGGGTGCGTTGGA  
GGTGCAAAGTCAGCAACGATTGTGGCAGATCTGTCTGAGACAACAATACAGACACCAGATGGTGAGGAGAGGCTT  
GGGGGAGAGGCTCACTCCATGGTCTGGGACCCAGTGGGGAACGCTGCTGGCTGTGCTTATGAAAGGAAAGCCAAGG  
GTACAGGATGGTAAACCAGTCATCCTCCTTTTTTCGCACTCGAAACAGCCCTGTGTTTGAGCTCCTTCCCTGTGGC  
ATTATCCAGGGGGAGCCAGGAGCCCAGCCCCAGCTCATCACTTTCCATCCTTCCCTTCAACAAAGGGGCCCTGCTC  
AGTGTGGGCTGGTCCACAGGCCGAATTGCCACATCCCGCTGTACTTTGTCAATGCCAGTTTCCACGTTTTAGC  
CCAGTGTCTTGGGCGGGCCCCAGGAACCCCTGCTGGGGGTGGAGGCTCTATTTCATGACCTGCCCCCTTTTACTGAG  
ACATCCCCAACCTCTGCCCCCTTGGGACCCCTCTCCAGGGCCACCACCTGTTCTGCCCCACTCCCCACATTCCAC  
CTCTAAGAATAAATAAGTTTTCTTTTGTTCCTCACTCA



3914/6881  
**FIGURE 3605**

MCSLGLFPPPPPRGQVTLYEHNNELVTGSSYESPPPDFRGQWINLPVLQLTKDPLKTPGRLDHGTRTAFIHHREQ  
VWKRCINIWDRDVGLFGVLNEIANSEEEVFEWVKTAGWALALCRWASSLHGSLFPHLSLRSEDLIAEFAQVTNWS  
SCCLRVFAWHPHTNKFALLDDSVRVYNASTIVPSLKHRLQRNVASLAWKPLSASVLAVACQSCILIWTLDP  
SLSTRPSSGCAQVLSHPGHTPVTSLAWAPSGGRLLSASPVDAAIRVWDVSTETCVPLPWFRGGGVNLLWSPDGS  
KILATTPSAVFRVWEAQMWTCERWPTLSGRCQTGCWSPDGSRLFTVLGEPLIYSLSFPERCGEGKGCVGGAKSA  
TIVADLSETTIQTPDGEERLGGEAHSMVWDPSGERLAVLMKGKPRVQDGKPVILLFRTRNSPVFELLPCGIIQGE  
PGAQPOLITFHPSFNKGALLSVGWSTGRIAHIPLYFVNAQFPRFSPVLGRAQEPPAGGGGSIHDLPLFTTETSPTS  
APWDPLPGPPPVLPHSPHSHL

3915/6881  
**FIGURE 3606**

AACGGGATGGGGAGCTGGACCAGCAGATTATGAGCTTACAGAAAGCCTGGCCTACATTTTACTCTTTTTGGATT  
CTTCCTCATCAAGAGACTGCTGCAGTGCCTGTCATGTGACAGCGGCATGGACATATGCCCCAGGCTTTCCTGCTG  
GGGTCCATCCATGAGCCTGCAGGTGCCCTCATGGAGCCCCAGCCCTGCCCTGGAAGCTTGGCTGAGAGCTTCCTG  
GAGGAGGAGCTTCGGCTCAATGCTGAGCTGAGCCAGCTGCAGTTTTTCGGAGCCTGTGGGCATCATCTACAATCCC  
GTGGAGTATGCATGGGAGCCACATCGCAACTACGTGACTCGCTACTGCCAGGGCCCCAAGGAAGTACTCTTCCTG  
GGCATGAACCCTGGACCTTTTGGCATGGCCCAGACTGGGGTGCCCTTTGGGGAAGTAAGCATGGTCCGGGACTGG  
TTGGGCATTGTGGGGCCTGTGCTGACCCCTCCCCAAGAGCATCCTAAACGACCAGTGCTGGGACTGGAGTGCCCA  
CAGTCAGAAGTGAGTGGTGCCCGATTCTGGGGCTTTTTCCGGAACCTCTGTGGACAGCCTGAGGTCTTCTTCCAT  
CACTGTTTTGTCCACAATCTATGCCCTCTGCTTTTCTGGCTCCCAGCGGGCGAACCTTACTCCTGCTGAGCTG  
CCTGCCAAGCAGCGAGAACAGCTTCTTGGGATCTGTGATGCAGCCCTCTGCCGGCAGGTGCAGCTGCTGGGGGTG  
CGGCTGGTGGTGGGAGTTGGGCGACTGGCAGAGCAGCGGGCAGCAGGGGCTCTGGCAGGCCTGATGCCAGAGGTG  
CAGGTGGAAGGGCTCCTGCATCCCTCTCCCCGTAACCCACAGGCCAACAAAGGGCTGGGAGGCAGTGGCCAAGGAA  
AGATTGAATGAGCTGGGGCTGCTGCCACTGCTGTTGAAATGAGTGCCCTTGGGGCCTTGATGGGACACATTCAA  
GACCTCGAAGTCATTCTTGGCCAAGCAGATGACAACACATCTCCTGGACTGGAGCAAAAGGTCCTTCTGTGCACC  
CTGGTCGCTGGGAAACGTATTCTTTGATCTGTTGAACTGTCTTCCAACCTGCCATGGCAGTTTTTGACACTACTCC  
TGTTTGCCCTCCTGATTCTGCTTTCTTTACCTTTTAACATTGCCCTTTTCAGGGGACCCACTTTGTAGGGAAT  
CTGCAGAAGGTGTGCTTTTGCACCTTGACAGCTGCTCTACCTCAGTGTTTTCTTGGGAGACTTTATTAGCTGAGA  
GTGCCCTAGACAGTAACCTTCTAAGGTCACGTTTACTATTTTCAGAGGAAATATCTTGCCAGGATACCTACCCATCC  
TTATAGAACAGTTACCTTTAGCTGACCCCTTTCTCACAGGGACCAAGACAAAGCATGGGACATGAAATTAAGAG  
TGAACCTCTTATGGGAGGCTGCAGCTGGATCAGAGGAAAAATCCAGTGTTGACAGAGTGCAAGTCAGAAGACCTGG  
CTTTTCATCCCAGCTTTGAAACTTGGAACTTTTTGATTGACAAATTAATAAACCTCTCTATGCCTCAGGC

3916/6881

**FIGURE 3607**

MPQAFLLGSIHEPAGALMEPQPCPGSLAESFLEEELRLNAELSQLQFSEPVGIIYNPVEYAWEPHRNYVTRYCQG  
PKEVLFLGMNPGPFGMAQTGVPFGEVSMVRDWLGIVGPVLTTPQEHKRPVLGLECPQSEVSGARFWGFFRNLCG  
QPEVFFHHCFVHNLCPLLFLAPSGRNLTPAELPAKQREQLLGICDAALCRQVQLGVRLVVGVRGLAEQRARRAL  
AGLMPEVQVEGLLHPSRNPQANKGWEAVAKERLNELGLLPLLK

3917/6881  
**FIGURE 3608**

TGACCCTAACAGTCGATTCAAGGCCAAGTGGTCAGTTTGTTCAGCCTTTTTTAAGGGATTTCCTTTTATTTTTAGG  
AATTCCAAACAGAGTTAACCTAAACTGTCAATTGCCAAAAGATCAGTCTTAACTTTCTTAGCACCTGTACCTGTT  
TAATGTGATCAGCTATCAGTGAGGAAAAAAAAAAAAATCTATTTAGGTCTTGGAATGGTTCCTGTACCTAGAGTA  
TCCATATTGAACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAACTTGCTCTTTTGCCAGGCTGGAG  
TGCAGTGGCGTGATCTTGGCTCACTGCAACCTCCGCCTCCCGGTTCAAGCAGTTCTCTGCCTCAGCCTCCTGAG  
CAGCTGGGATTATAGGCGCCTGCCACCATGCCCGGCTAATTTTGTATTTTTAGTAGAGACAGGGTTCACCATCT  
TGGCCGTGCTGGTCTTGAACCTCTGACCTTGTGATCCGCCTGCCTCGGCCACTCAAAGTGCTGGGATTGCAGGCG  
TGAGCCAGCACCCGGCCACAGTATCTTTATTACAGCTCACTGCAGCCTCAATCTCCTGGGCTCAAAATGATCCTCC  
TGCCTCAGCCTCCCAAGCAGCTGGGACTACAGGCGCACACCACGGTGTCTGGCTAATTTTATTATTTAAAAAATG  
TTTTGTAGAGACAGTCTCCCTGTGTTGCCAGGCTGGTCTCCAACCTCGTGAGCTCAAGTGATCCACCTGCCTCAG  
CCTCCCAAAGTGCTGGGATTACAAGCATAAGCCACCGCACCCGGCCCTAGTGAACATTTTACTGTATGTGTTGA  
TAAATCATCTTTTGAGTTTCTGTTGTATGTGGGACTTCTTACACTGGCTGCTGTGAAGAGGTATGGAAGAAAGG  
AGAGGCTTCTGCCTAGAAATCTTTGAGAACCTGAAAAGACAGTTTAAATCATGTCACAACACTCTTAAGGCT  
CAAGTCAGTGTTCTGGTTTCCGGTAGCTTTAGGATTGGATTCTAAACGAGGGCTGGTGGTGAGTTTGGTGTGTTGT  
CTCGTGTACCCCTCACCCCTCACCTCCTCAGTTTAGGATAAGAGACATAATGATTTCTACCAGAATCCAAAGTAA  
ATCCAAAGGGGGAGAAAAGACATAACTGTTTTTCTTCTACCTTTTTTTTGTAAAGAGTTACATCTCTCACAGG  
AGGAAAGAATTCAAGAGTCTATATGATTAGTTACAGAGAATATTTTCATCCCTCTCCCTGAATAGAAAAGCAGG  
GGTCACCATTTGTATCCTTACCTTGAGGTGTTTTGAAGATGCTGTAACCTCTTGAAGTTGAGCTGAGGCAGAAA  
GGTTGGAAAAATGCAGCCCTCTGGGTATTGTGGGGAGGGATGTGATGTAGTAAGAGGGTGTGTTGTGGTGCTAGG  
ATTCCACGCCACCAACTTGACGCTTTATAAGAGCGCTACCAAGAACCACCTGGGGAAAAGGTTCTTATTCAT  
TGTTTCTGTTGGAATGTGATCTTGCTTTCTGGATTTTAGGAATTCAGGTTACTCAGTATAAACTCTGAGAAATC  
AGTGTGACTTAGTCCTTACCTCCTAAGATAAAGTGAATATTTCTTTACAAAATAATTCATGTCCTTAATGTTAA  
AGATGTAATTTTATTTTCAAAACATCTATAACATGACTTTTCAAGCAGTTTCAATTTTCCAAGATTCCTCACATT  
ATACTAGATAAATAATAGGCCCTCAGTTAATACCCTTCACTTATTGAATTAATCTAGTTTGTGGAATGAGGTGTA  
TCCTGCCAACTTCCCTCTGCTCCCAAGTACACTCTGAGAGGTAATGCTCTGGGAAATGGAACAAGATCGAGT  
GGATGCTGACTCTGTGTGCCACCTCCTCAACTGATTGATAATGGTTGACCTTGGGCAAGTCACTTCTTTCAATG  
CCTCAGTTCCCATCTGTCAATGGGGTTAATAATACTGACCTACCTCACAGGGGTGTGTTGTGAGGCATTGTA  
AATCAAAGTTAATAGAATACTTCAGGGTCTCTGTGGAGGATGTCTTGAGCCAGAGTTAAGCCTGACACACAGG  
CTTTGGTCTCACTGAGCTGTCTCAAGACTGGAACACTTAGTGACTCGGCAATTTTCTGCCCCCACCCTC  
ATCAAAGCTGCTAGTTTCAGATGTTGACAGTGTTCATGAATGTTGGAATCTTACTAGTCCAGACTTACTTAGGA  
TGTTGTGGGGAAGGCACTTGGGATTTTCTGTGCTTGCATTACAGAGGGAGGCCATTCAGATTCAAGAGCAT  
TGGATTAGGGAATCGTGAGGCAGGGATGCTACTGCGTATTTCTCTCTGCAGGTTGGGGATTAAAGTTCTTTCCC  
CATGGGTTTGAAGCAGACTCAGACTGTCTCAGGATCAAAGCAACCCTCAATGGTTTTGATTTATGTCATTGCTTA  
CCACTCCCCAACCAATCCCAGGACAGCTGGGTCACTGTACCCCTTGTGGTATCTGTACCTGGGCCTCTCCTTCC  
TCATAGGGACAGCTGATTGAATAAATGTGACCACTTATTTCCACCCCCCACCCTTAAAGCTTACATCCATTACCGTATTCA  
ATTTTCTTAGAAATGTGTATAACACTCAGAAATGGGCATTGATCCTTAAAGCTTACATCCATTACCGTATTCA  
ACATCTGTCATCTCTTAGTGTCTGCAGTCTGAACCTAACCTTGACCTTTTTTCCCTCTGGTTTGAGAAAATTTG  
GACACTATTTCTACTTGGCCAGGTGTGGGCTCAAGAGCCTTACTCTTTCCATCTCAGTTTAGGGGCGCAGCCAGC  
TCCTCTTCCCAATAGGGCTCTTTCTGCTTTCCCTCTCCTTGGCCCTAGATTTGTAATCCATGAAAAAGCACAAGG  
TCCTGGCTCCTTGGCGTCACATCTGGTCTCTGTGTTTTGTGGACTCTGCTCTCACTGTTTACCCAGCACTAGC  
AGTACCAGATGGTCTGTGGAGTCTGGGGAATGGAGAGAGCACAGTCTGACTCCCTGCCAAGTAGCCAGGAGTT  
GACTTGCCCATGGTCCGCTGGCTTTCCACCACTTCCTACAGGATGGGATCTAAGAGACTCAAGAGCTGGGTTTC  
TTTACGACTCTGTACTGTCCCAATAGCAACAAATCACTTTGTAGCCAGATTTCTGAATGGAAATGAGAAAT  
GAATTCCTCATGGACTTTTAGGTTTATGGGGAGTTTAGCTGTGTTTCTTGGTTTTATTTACGCCAAACATGTC  
TGCTTTTGATTTTTTTTTTAAAGTATAAGTGGTCTATATATATGTTACCTTTTAAATGTAAATGTTTAAAAAGT  
AAGCATTTATGTGTTTCCATAACTGACATCTGATGCAGACCTCATCTCTCCCCCTCTCTACCTCCTCTTTTC  
CCCCTTTTCATACTCTTGTATTGGTTCTAATAAATGGTTGCTTTTC

3918/6881

**FIGURE 3609**

MVDLGQVTSFNASVPHLSNGVNNTDLPHRGVVVRHCKSKLIEYFRVLCGGCLEPEFKPDTQALVLTLSRLELL  
SDSANFLPPTPHQSC

3919/6881  
**FIGURE 3610**

GGAAGAGCCGAGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTAAAGGAGGACACACCTAA  
ACATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCA  
ATCCTGCCCACCCACCACCTATTAATCCACCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATG  
GCAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCTGTGCCACAGCCAGGGTATCCAGGATGCCAACC GTTG  
GTCCCTACCCTCCTCCATACCCACCGCCTGCCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTG  
GACCAGCAGTGATAGTAGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCAAA  
AGCACCACAAGTACCACAAGCATGGCAAGCATTCTCCTCTTCTCCTCTCTTCCAGCAGTGATTCTGACTGAA  
TACAGGCCCTGGACCCCTCCCTCAAGTCTCACCAGTTCTGCTCTCCCATCAAGCTTCAGATGCCATGTTGTA CTG  
GGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCT  
AGGGGAAATGGGAAGAGGATTGCCATGGCCTGGCCATCTTGTTGCTGCTTGGTTAGATCATATAGCTAATGAATT  
AGGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTA AAATGTGATTTT  
TTACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTC AATTATGATGAAAAACCTATCTTTTTTG  
TAATGTTGGCATACTTGGGGAATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTGGTTGCACTAACTGCA  
AGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTAG  
CCCAATATGCTGTCTTGGGTCCTATTCAAATAAAGTTATTTCTCCTGGTCTCAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAA

3920/6881

**FIGURE 3611**

MWNPAGQPGPNPYFPNIGCPGGSNPAHPPPINPPFPFGPCPPPPGAPHGNEAFPFGGPPHPVPQPGYFGCQPLG  
PYPPPYPPAPGIPFVNPLAPGMVGFAVIVDKKMQKKMKKAHKKMHKHQKHHKYHKGKHSSSSSSSSSDSD

3921/6881  
**FIGURE 3612**

GAGAGGGCGAAGGTAGGCTGGCAGATACGTTCTGTCAGCTTGCTCCTTTCTGCCCCGTGGACGCCGCCGAAGAAGCA  
TCGTTAAAGTCTCTCTTCCACCTGCCGTCATGCTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGC  
TCTTCATTGGAGGGTTGAGCTTTGAAACAACCTGATGAGAGCCTGAGGAGCCATTTGAGCAATGGGAACGCTCA  
CGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCTAGGGGCTTTGGGTTTGTACATATGCCACTGTGG  
AGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCT  
CCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACA  
CTGAAGAACATCACCTAAGAGATTATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAG  
GCAGTGGCAAGAAAAGGGGCTTTGCTTTTGTAACTTTGACGACCATGACTCCGTGGATAAGATTGTCATTTCAGA  
AATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCAT  
CCAGCCAAAGAGGTGCAAGTGGTTCTGGAACTTTGGTGGTGGTCTGAGGAGGTGGTTTCGGTGGGAATGACAACCT  
TCGGTCTGTGGAGGAACTTCAGTGGTCTGTGGTGGCTTTGGTGGCAGCCGTGGTGGTGGTGGATATGGTGGCAGTG  
GGGATGGCTATAATGGATTGGCAATGATGGTGGTTATGGAGGAGGCGGCCCTGGTTACTCTGGAGGAAGCAGAG  
GCTATGGAAGTGGTGGACAGGGTTATGGAAACCAGGGCAGTGGCTATGGCGGGAGTGGCAGCTATGACAGCTATA  
ACAACGGAGGCGGAGGGCGGCTTTGGCGGTGGTAGTGGAAGCAATTTTGGAGGTGGTGGAAAGCTACAATGATTTTG  
GGAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATTTTGGAGGCAGAAGCTCTGGCCCT  
ATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGGTGGCTATGGCGGTTCCAGCAGCAGCAGTAGCT  
ATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGC  
TACAGGTTACAACAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCCTAGCTGCTACAAAGAAGACATGT  
TTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTT  
TAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAATGTAGATTTTTTTTTTGCACCCCAT  
GCTGTTGATTGCTAAATGTAAACAGTCTGATCGTGACGCTGAATAAATGTCTTTTTTTTAAATGTGCTGTGTAAAGT  
TAGTCTACTCTTAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAGAATTCCTTCAGGGTGATGCCAGGT  
TCTATTTGGAATTTATATACAACCTGCTTGGGTGGAGAAGCCATTGTCTTCGGAAACCTTGGTGTAGTTGAACTG  
ATAGTTACTGTTGTGACCTGAAGTTCACCATTAAGGGATTACCCAAGCAAAATCATGGAATGGTTATAAAGT  
GATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTACCAGATAAAATTATAGATGGGAATGAAGC  
TTGTGTATCCATTATCATGTGTAATCAATAAACGATTTAATTCTCTTGAA



3922/6881  
**FIGURE 3613**

MSKSESPKEPEQLRKLFIGGLSFETTDESLSHFQWGLTDCVVMRDPNTKRSRGFGFVITYATVEEVDAAMNAR  
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYKIEVIEIMTDRGSGKKRGFAF  
VTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSQRGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR  
GGFGGSRGGGGYGGSGDGYNGFGNDGGYGGGGPGYSGGSRGYSGGGQYGNQGSYGGSGSYDSYNNGGGGGFGG  
GSGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPRNQGGYGGSSSSSYSGRRF

3923/6881  
**FIGURE 3614**

GCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGTGCCCAAAGCAAATGCTGGCCGCCAACCCAGGC  
AAGACCCCGATCAGCCTTCTGCAGGAGTATGGGACCAGAAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCC  
GAGGGCCAAGCCACCAGCCTAATTTACCTTCCGGGTACCGTTGGCGACACCAGCTGCAGTGGTCAGGGCCCC  
AGCAAGAAGGCAGCCAAGCACAAGGCAGCTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCG  
GCCCTGGAGGACAGCAGTTCTTTTTCTCCCTAGACTCTTCACTGCCTGAGGACATTCCGGTTTTTACTGCTGCA  
GCAGCTGCTACCCAGTTCCATCTGTAGTCCTAACAGGAGCCCCCATGGAAGTGCAGCCCCCTGTCTCCCT  
CAGCAGTCTGAGTGCAACCCCGTTGGTGCTCTGCAGGAGCTGGTGGTGCAGAAAGGCTGGCGGTTGCCGGAGTAC  
ACAGTGACCCAGGAGTCTGGGCCAGCCACCGCAAAGAATTCACCATGACCTGTGAGTGGAGCGTTTCATTGAG  
ATTGGGAGTGGCACTTCCAAAAAATTGGCAAAGCGGAATCGGGCGGCCAAAATGCTGCTTCGAGTGCACACGGTG  
CCTCTGGATGCCCGGGATGGCAATGAGGTGGAGCCTGATGATGACCATTCTCCATTGGTGTGGGCTCCCGCCTG  
GATGGTCTTCGAAACCGGGGCCAGGTTGCACCTGGGATTCTCTACGAAATTCAGTAGGAGAGAAGATCCTGTCC  
CTCCGAGTTGCTCCCTGGGCTCCCTGGGTGCCCTGGGCCCTGCCTGCTGCCGTGTCTCAGTGAGCTCTCTGAG  
GAGCAGGCCTTTACGTCAGCTACCTGGATATTGAGGAGCTGAGCCTGAGTGGACTCTGCCAGTGCCTGGTGGAA  
CTGTCCACCCAGCCGGCCACTGTGTGTCTATGGCTCTGCAACCACCAGGGAGGCAGCCCGTGGTGAGGCTGCCCGC  
CGTGCCCTGCAGTACCTCAAGATCATGGCAGGCAGCAAGTGAAGCCCCAGCTGGACTCATGGATGTGCACCCTTT  
GCTCCCTGCTCTTTCTGCCTCTGGGCTCATGTATCTGCGCAGCTCTGGTACCCTCTGTGGGTGCCATCTCTACCT  
CTGACACAGACTGCCTGCCTTGAAGCTGAGAAGGCACAGGGCAAGGAGCCAAGGACCACAGAGCCTCAGCCAGCC  
CAGGATCCGTCCCTCATTTTATTGGTGATGATGAATGGGAATGAAATCAGGGGGCTGTCTACTAGAGCCTGGAATA  
AATATGCTGCTTTGTGGATTTTAA

3924/6881  
**FIGURE 3615**

MLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSC TGQGPSKKA AKHKA AEVALKHLK  
GGSMLEPALEDSSSFSPLDSSLPEDIPVFTAAAAATPVPSVVLTRSPPMELQPPVSPQQSECNPVGALQELVVQK  
GWRLPEYTVTQESGPAHRKEFTMTICRVERFIEIGSGTSKKLAKRNAAKMLLRVHTVPLDARDGNEVEPDDHFS  
IGVGSRLDGLRNRGPGCTWDSL RNSVGEKILSLRSCSLGSLGALGPACCRVLSEELSEQAFHVS YLDIEELSLSG  
LCQCLVELSTQPATVCHGSATTREAAERGEAARRALQYLKIMAGSK

3925/6881

**FIGURE 3616**

GCCTCTCCAGCTGCGACACAGATGGCGCGGGGCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGT  
GCCCAAGTGAGTCCTTACCGCCTCCCTACCCAGCGGCTTCCCCTCCGCTAGTACGCATGTCCACAGCTTCACGGA  
CCGGGAGAGAGGGGGCGCGGAAGGAAGGAGGCGGGACGGTATTACAAACAAAAAATACGGCCTTCTCGAGAAGC  
GACGGCGGAGGGCCCCGCTCCTCCCAGAAGGCGGTGCAGCCTGCCCGGGCGAGCCACGCACGCAGAGGGTTGTGGG  
GCGGATAGCTCCCCCTCCAGATGGAGGCTCACGAAGTAGGGTGGGCGGGGGACTCCATATCCACGCTGCCCGCG  
GCGGGCCCTACCGGCCGCGACTCCGGGCTTGGCCCCGGCCCTAGCTCGTCGGCTGTGTATTGGGGCGCGTGGAGG  
CTGCAGTCACGGTGGCGCCCCGCGGGGACGGAGGAGGGAATGAGTGAAGAGGAGCAAGGCTCCGGCACTACCACGG  
GCTGCGGGCTGCCTAGTATAGAGCAAATGCTGGCCGCCAACCCAGGCAAGACCCGATCAGCCTTCTGCAGGAGT  
ATGGGACCAGAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCCGAGGGCCAAGCCCCACCAGCCTAATTTCA  
CCTTCCGGGTACCGTTGGCGACACCAGCTGCACTGGTCAGGGCCCCAGCAAGAAGGCAGCCAAGCACAAAGGCAG  
CTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCGGCCCTGGAGGACAGCAGTTCTTTTTCTC  
CCCTAGACTCTTCACTGCCTGAGGACATTCCGGTTTTTACTGCTGCAGCAGCTGCTACCCAGTTCCATCTGTAG  
TCCTAACCAGGAGCCCCCATGGAAGTGCAGCCCCCTGTCTCCCCTCAGCAGTCTGAGTGCAACCCCGTTGGTG  
CTCTGCAGGAGCTGGTGGTGCAGAAAGGCTGGCGGTTGCCGGAGTACACAGTGACCCAGGAGTCTGGGCCAGCCC  
ACCGCAAAGAATTCACCATGACCTGTCGAGTGGAGCGTTTCATTGAGATTGGGAGTGGCACTTCCAAAAAATTGG  
CAAAGCGGAATGCGGCGGCCAAAATGCTGCTTCGAGTGCACACGGTGCCCTCTGGATGCCCGGGATGGCAATGAGG  
TGGAGCCTGATGATGACCACTTCTCCATTGGTGTGGGCTCCCGCCTGGATGGTCTTCGAAACCGGGGCCAGGTT  
GCACCTGGGATTCTCTACGAAATTCAGTAGGAGAGAAGATCCTGTCCCTCCGCAGTTGCTCCCTGGGCTCCCTGG  
GTGCCCTGGGCCCTGCCTGCTGCCGTGTCTCAGTGAGCTCTCTGAGGAGCAGGCCTTTCACGTCAGCTACCTGG  
ATATTGAGGAGCTGAGCCTGAGTGGACTCTGCCAGTGCCCTGGTGGAACTGTCCACCCAGCCGGCCACTGTGTGTC  
ATGGCTCTGCAACCACCAGGGAGGCAGCCCGTGGTGGGCTGCCCGCCGTGCCCTGCAGTACCTCAAGATCATGG  
CAGGCAGCAAGTGAAGCCCCAGCTGGACTCATGGATGTGCACCCTTGTCTCCCTGCTCTTTCTGCCTCTGGGCTC  
ATGTATCTGCGCAGCTCTGGTACCCTCTGTGGGTGCCATCTCTACCTCTGACACAGACTGCCTGCCTTGAAGCTG  
AGAAGGCACAGGGCAAGGAGCCAAGGACCACAGAGCCTCAGCCAGCCCAGGATCCGTCCTCATTTTATTGGTGAT  
GATGAATGGGAATGAAATCAGGGGGCTGTCTACTAGAGCCTGGAATAAATATGCTGCTTTGTGGATTTTTAAAAA  
AAAAAAAAAAAAA

3926/6881

**FIGURE 3617**

MSEEEQSGSTTTGCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDT SCTG  
QGPSKKA AKH KAAEVALKHLKGGSML E PALEDSSSF SPLDSSL PEDIPVFTAAAAATPVP SVVLTRSP PMELQPP  
VSPQQSECNPVGALQELVVQKGWRLPEYTVTQESGPAHRKEFTMTCRVERFIEIGSGTSKKLAKRNAAAKMLLRV  
HTVPLDARDGNEVEPDDDHFSIGVGSRLDGLRNRGPGCTWDSL RNSVGEKILSLRSCSLGSLGALGPACCRVLSE  
LSEEQAFHVS YLDIEELSLSGLCQCLVELSTQPATVCHGSATTREAAARGEAAARRALQYLKIMAGSK

3927/6881

**FIGURE 3618**

GCCTCTCCAGCTGCGACACAGATGGCGCGCGGGCTCTTGGGTTCTGTAGTTTTCTCGCGATCCAAAAGGCTCCGT  
GCCCAAGTGAGTCCTTACCGCCTCCCTACCCAGCGGCTTCCCCTCCGCTAGTACGCATGTCCACAGCTTCACGGA  
CCGGGAGAGAGGGGGCGCGGAAGGAAGGAGGCGGGACGGTATTACAAACAAAAAATACGGCCTTCTCGAGAAGC  
GACGGCGGAGGGCCCCGCTCCTCCAGAAGGCGGTGCAGCCTGCCCCGGGCGAGCCACGCACGCAGAGGGTTGTGGG  
GCGGATAGCTCCCCCTCCAGATGGAGGCTCACGAAGTAGGGTGGGCGGGGGACTCCATATCCAGCGTGCCCCGCG  
GCGGGCCCTACCGGCCGCGACTCCGGGCTTGGCCCCGGCCCTAGCTCGTCGGCTGTGTATTGGGGCGCGTGGAGG  
CTGCAGTCACGGTGGCGCCCCGCGGGACGGAGGAGGAATGAGTGAAGAGGAGCAAGGCTCCGGCACTACCACGG  
GCTGCGGGCTGCCTAGTATAGAGCAAATGCTGGCCGCCAACCCAGGCAAGACCCCGATCAGCCTTCTGCAGGAGT  
ATGGGACCAGAATAGGGAAGACGCCTGTGTACGACCTTCTCAAAGCCGAGGGCCAAGCCCCACCAGCCTAATTTC  
CCTTCCGGGTCACCGTTGGCGACACCAGCTGCACTGGTCAGGGCCCCAGCAAGAAGGCAGCCAAGCACAAAGGCAG  
CTGAGGTGGCCCTCAAACACCTCAAAGGGGGGAGCATGCTGGAGCCGGCCCTGGAGGACAGCAGACTCTTCACTG  
CCTGAGGACATTCCGGTTTTTACTGCTGCAGCAGCTGCTACCCAGTTCCATCTGTAGTCCTAACCAGGAGCCCC  
CCCATGGAAGTGCAGCCCCCTGTCTCCCTCAGCAGTCTGAGTGAACCCCGTTGGTGCTCTGCAGGAGCTGGTG  
GTGCAGAAAGGCTGGCGGTTGCCGGAGTACACAGTGACCCAGGAGTCTGGGCCAGCCCACCGCAAAGAATTCACC  
ATGACCTGTGAGTGGAGCGTTTTATTGAGATTGGGAGTGGCACTTCCAAAAAATTGGCAAAGCGGAATGCGGCG  
GCCAAAATGCTGCTTCGAGTGCACACGGTGCCTCTGGATGCCCGGGATGGCAATGAGGTGGAGCCTGATGATGAC  
CACTTCTCCATTGGTGTGGGCTCCCGCTGGATGGTCTTCGAAACCGGGGCCAGGTTGCACCTGGGATTCTCTA  
CGAAATTCAGTAGGAGAGAAGATCCTGTCCCTCCGCACTTGCTCCCTGGGCTCCCTGGGTGCCCTGGGCCCTGCC  
TGCTGCCGTGTCTCAGTGAGCTCTCTGAGGAGCAGGCCTTTCACGTCAGCTACCTGGATATTGAGGAGCTGAGC  
CTGAGTGGACTCTGCCAGTGCCTGGTGGAACTGTCCACCCAGCCGGCCACTGTGTGTCATGGCTCTGCAACCACC  
AGGGAGGCAGCCCGTGGTGAGGCTGCCCCGCGTGCCCTGCAGTACCTCAAGATCATGGCAGGCAGCAAGTGAAGC  
CCCAGCTGGACTCATGGATGTGCACCCCTTGTCTCCCTGCTCTTCTGCCTCTGGGCTCATGTATCTGCGCAGCTC  
TGGTACCCTCTGTGGGTGCCATCTCTACCTCTGACACAGACTGCCTGCCTTGAAGCTGAGAAGGCACAGGGCAAG  
GAGCCAAGGACCACAGGCCTCAGCCAGCCAGGATCCGTCCTCATTTTATTGGTGATGATGAATGGGAATGAAA  
TCAGGGGGCTGTCTACTAGAGCCTGGAATAAATATGCTGCTTTGTGGATTTTAAAAAAAAAAAAAAAAAAAA

3928/6881  
**FIGURE 3619**

MSEEEQSGGTTTGCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSCIG  
QGPSKKAARKHKAEEVALKHLKGGSMLPEALEDSRLFTA

3929/6881  
**FIGURE 3620**

CTCGCGCCTGCAGTTTTTGGCTTTCACCCCCAACCAAGTACCAAGACTTGACCACTCAAAGTCCAGCTCCCCAG  
AACACTGCTCGACATGGACACCGGTGTGATTGAAGGTGGATTAAATGTCACCTCACCATCCGGCTACTTATGCA  
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACG  
TATCAACATCTCAGAAGGGAATTGTCCTGAGAGAATTATCAGTTTGGCTGGACCCACTAATGCCATCTTCAAAGC  
CTTTGCTATGATCATTGACAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGCACAGCTGCCAGTAGACC  
CCCGGTCACCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGATGCAAGATCAA  
GGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTACCCAACTCAACTGAGCGGGCCAT  
CACTATTGCTGGCATTCCACAATCCATCATTGAGTGTGTCAAACAGATCTGCGTGGTCATGTTGGAGACTCTCTC  
CCAGTCCCCCGAAGGGCGTGACCATCCCGTACCGGCCAAGCCGTCCAGCTCTCCGGTCATCTTTGCAGGTGG  
TCAGGACAGGTACAGCACAGGCAGCGACAGTGCAGCTTTCCCCACACCACCCCGTCCATGTGCCTCAACCCGTA  
CCTGGAGGGACCACCTCTAGAGGCCTATACCATTCAAGGACAGTATGCCATTCCACAGCCAGATTTGACCAAGCT  
GCACCAGTTGGCAATGCAACAGTCTCATTTCCTCATGACGCATGGCAACACCGGATTCAGTGGCATTGAATCCAG  
CTCTCCAGAGGTGAAAGGCTATTGGGCAGGTTTGGATGCATCTGCTCAGACTACTTCTCATGAACTCACCATTCC  
AAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTCAGATGTCTGGGGCGCA  
GATCAAAATTGCGAACCCAGTGAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAG  
CCTGGCTCAATATCTAATCAATGTCAGGCTTTCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAAATGCAGA  
TTCATCCATAATCCCTTTCTGCTGTTCACCACCACCCATGATCCATCTGTGTAGTTTCTGAACAGTCAGCGATT  
CAGGTTTTAAATAGTTTGTAATTTTCAGTTTCTACACACTTTATCATCCACTCGTGATTTTTTAATTAAAGCGT  
TTTAATTCCTTT



3930/6881  
**FIGURE 3621**

MDTGVIIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFKAFAMI  
IDKLEEDISSMTNSTAASRPPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPNSTERAITIAG  
IPQSIIECVKQICVVMLETLSQSPPKGV TIPYRKPSSSPVIFAGGQDRYSTGSDSASFPHHTPSMCLNPDLEGP  
PLEAYTIQGQYAIPQPD LTKLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDASAQTTSHELTIPNDLI  
GCIIGRQGA KINEIRQMSGAIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

3931/6881  
**FIGURE 3622**

CTCGCGCCTGCAGTTTTTGGCTTTCACCCCAACCAGTGACCAAAGACTTGACCACTCAAAGTCCAGCTCCCCAG  
AACACTGCTCGACATGGACACCGGTGTGATTGAAGGTGGATTAAATGTCACCTCTCACCATCCGGCTACTTATGCA  
TGGAAAGGAAGTTGGCAGTATCATCGGAAAGAAAGGAGAATCAGTTAAGAAGATGCGCGAGGAGAGTGGTGCACG  
TATCAACATCTCAGAAGGGAATTGTCTGAGAGAATTATCACTTTGGCTGGACCCACTAATGCCATCTTCAAAGC  
CTTTGCTATGATCATTGACAAACTGGAAGAGGACATAAGCAGCTCTATGACCAATAGCACAGCTGCCAGTAGACC  
CCCGGTCACCCCTGAGGCTGGTGGTCCCTGCTAGTCAGTGTGGCTCTCTCATTGGAAAAGGTGGATGCAAGATCAA  
GGAAATACGAGAGAGTACAGGGGCTCAGGTCCAGGTGGCAGGGGATATGCTACCCAACTCAACTGAGCGGGCCAT  
CACTATTGCTGGCATTCCACAATCCATCATTGAGTGTGTCAAACAGATCTGCGTGGTCATGTTGGAGTCCCCCCC  
GAAGGGCGTGACCATCCCGTACCGGCCCAAGCCGTCCAGCTCTCCGGTCATCTTTGCAGGTGGTCAGGACAGGTA  
CAGCACAGGCAGCGACAGTGCGAGCTTTCCCCACACCACCCCGTCCATGTGCCTCAACCCTGACCTGGAGGGACC  
ACCTCTAGAGGCCTATACCATTTCAAGGACAGTATGCCATTCCACAGCCAGATTTGACCAAGCTGCACCAGTTGGC  
AATGCAACAGTCTCATTTTCCCATGACGCATGGCAACACCGGATTTCAGTGGCATTGAATCCAGCTCTCCAGAGGT  
GAAAGGCTATTGGGCAGGTTTGGATGCATCTGCTCAGACTACTTCTCATGAACTCACCATTCCAAACGATTTGAT  
TGGCTGCATAATCGGGCGTCAAGGCGCCAAAATCAATGAGATCCGTCAGATGTCTGGGGCGCAGATCAAAATTGC  
GAACCCAGTGGAAGGATCTACTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAATA  
TCTAATCAATGTGAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAAATGCAGATTCATCCATAAT  
CCCTTTCTGCTGTTACCAACCACCATGATCCATCTGTGTAGTTTCTGAACAGTCAGCGATTCCAGGTTTTAAAT  
AGTTTGTAAATTTTCAGTTCTACACACTTTATCATCCACTCGTGATTTTTTAATTAAAGCGTTTTAATTCCTTT

3932/6881  
**FIGURE 3623**

MDTGVIIEGGLNVTLTIRLLMHGKEVGSIIIGKKGESVKKMREESGARINISEGNCPERIITLAGPTNAIFKAFAMI  
IDKLEEDISSMTNSTAASRPVTLRLVVPASQCGSLIGKGGCKIKEIRESTGAQVQVAGDMLPNSTERAITIAG  
IPQSIIECVKQICVVMLESPPKGV TIPYRKPSSSPVIFAGGQDRYSTGSDSASFPHHTPSMCLNPDLEGPPLEA  
YTIQGQYAIPOPDLT KLHQLAMQQSHFPMTHGNTGFSGIESSSPEVKGYWAGLDASAQTTSHELTIPNDLIGCII  
GRQGAKINEIRQMSGAQIKIANPVEGSTDRQVTITGSAASISLAQYLINVRLSSETGGMGSS

3933/6881  
**FIGURE 3624**

AGAGCGACGCGGAACCCCGGGCGCCTGGGTCCCCAGCATGATCCTCGGCAGCCTGAGCCGGGCAGGGCCCCCTGCC  
TCTGCTACGGCAGCCCCGATCATGCAGCCCCACTGGACCTCAAGCAGATCCTGCCCTTCCCACTCGAGCCAGC  
CCCTACCCTTGGCCTCTTCAGCAACTACAGCACCATGGACCCCTGTGCAGAAGGCTGTGCTCTCCACACTTTTGG  
GGGACCCTTGCTCAAGACCAAGCGGCCCCGTCATTTCTGTAAATATCTGTCAAATCCGCTTCAATTCTCAGAGCCA  
GGCTGAGGCGCACTACAAAGGTAATCGCCACGCCCCGACGAGTCAAAGGCATTGAGGCTGCCAAGACCAGAGGCAG  
GGAGCCTGGCGTCCGAGAACCTGGAGACCCAGCTCCCCAGGCAGCACCCCAACAAATGGGGATGGTGTAGCACC  
CCGTCCAGTTTCCATGGAGAATGGACTGGGGCCAGCCCCAGGATCCCCAGAGAAACAGCCTGGCTCCCCATCCCC  
TCCCAGCATTCCGGAGACTGGTCAGGGTGTAAACCAAGGGTGAAGGGGGGACTCCAGCCCCGGCTTCTTGCCTGG  
GGGTAGCAAGGAAGAGGAGGAGAAAGCCAAGCGGCTGTCTACTGTGCTCTGTGCAAGGTGGCTGTGAATCCCT  
GTCCAGCTTGAGGCACATAACAAAGGTACTAAGCACAGACAATTCTGGAGGCCCGAAGTGGGCTCGGGCCCCAT  
CAAAGCTTACCCTCGGCTGGGGCCTCCCACCCCGGGGAACAGAGGCTCCTGCCAGGACCGAACTTTCCACTG  
TGAGATCTGCAATGTCAAGGTCAACTCGGAGGTCCAAGTGAACAGCACATCTCCAGCCGGCGGCACCGAGACGG  
CGTGGCCGGGAAGCCCAACCCACTACTGAGCCGTACAAAGAAGTCTAGGGGCGCCGGGGAGCTGGCGGGCACGCT  
GACTTTCTCCAAGGAGCTGCCAAGTCCCTGGCGGGCGGCTGCTCCCCAGCCCCCTGGCGGTGGCTGCAGTGAT  
GGCAGCGGCAGCAGGCTCGCCGCTGTCCCTGCGCCCGGCTCCAGCCGCACCTCTTCTCCAGGGACCGCCGATCAC  
TCACCCTCTGCTTACCCCGCCCCCGGACCCATCCGAAGTGCACAGGACCCATCCTCTTCTCCCCGTACTGACC  
TCAACCCTGAACCCCTCCCATTCAACTCCCCACCTCCAGCCGGGACCCAGGCGTCCGGGCTCCAGCCCGCCCCCT  
CCTCCCGGCACCTCCCTAAATGATCTCTCCTTCCCCCCCCCACCCTGAGATACGGGGTTCCAGGAAAGGGGAGGG  
GTAGCGGGGGAGGGGGGCTTCAGAAGGGGGGAACACCCAGATCTCAGGGAACCCCGCCCCCTGCCTTTCCCTC  
TCCCTAGAAAAGGGGGGGCGCTCTACCCCCGAGCCCCCTTGAGACACCCCCCTCCCAAAAGCCATGTCCAT  
CCAGCCCTTCCCCCAAACTAGCACAAAACGGGGTTCAAGCCATGGTCGGGGTCCGGGGGGGACAGAAATGG  
ATTTTCTTGGCAATAAGCGGACTCTGGGACTCCGGCTCCCTACCCCAAAGTGAAGCGCTTCCGTGAACACCCCCG  
TCCTCCGTAGGGGGAGGGGAGCAGGCGGGATCCTGGGTCCCTCATAAGCACTTTGGTTTTACCGCCTGCAACCTC  
ACTGTGCCCCGCCCGCACCATGCCCTAGCCCCAGGTCTAGCCGGGGCCATTGCAGGGGGCAGCACTTGGGGGCAT  
CTCCGGCACTTGGGTGGGACCAAGGAGATGCCACCATAGACCTTTCCCTCGCCTTCTTCTCCCTAGTCCGGGTT  
CCATTCTTTTACCAGCACCCATCGCCCAAGGGGTACCGAGGGGGGAAGGGGTGTCCAGTCCAAGCCCACCCCC  
GCCTCGCCTTCCGCAAACTGTGAGCAAAAAGCAATAGAAGCCTCGCCCCCGCCTTCCCTTTCGAGGATTTCGC  
CGAGTCTGTAGCCTCCCCGATCCAAGTTCCTAGACCTCATGGCTGTCCCCTCCCACAGTCACCTCCACTGCACA  
ACTCGGGCGGGGTGTGACACCTCTCCCCACCCCGACTCCGTGGTTTCCGTATCGTCAACCCTTCAGCCGCCG  
ACCCGGGAGGGGTCTGGCCTACACTGGTCTTCCCTTCCCATCAACTCTTCTGCTTGACAATGTAGCAACCCAG  
GCCCCCACCCACGGTCTCCTCTTCTTCTCCTTGACAATAAAGTCTGAATTGTCTGCCCTCC

3934/6881  
**FIGURE 3625**

MQPPLDLKQILPFPLEPAPTLGLFSNYSTMDPVQKAVLSHTFGGPLLKTTRPVISCNICQIRFNSQSQAEEAHYKG  
NRHARRVKGIEAAKTRGREPGVREPGDPAPPGSTPTNGDGVAPRPVSMENGLGPAPGSPEKQPGSPSPPSIPETG  
QGVTKGEGGTPAPASLPGGSKEEEEKAKRLLYCALCKVAVNSLSQLEAHNKGTKHKKTILEARSGLGPIKAYPRLG  
PPTPGEPEAPAQDRTFHCEICNVKVNSEVQLKQHISRRHRDGVAGKPNPLSRHKKSRGAGELAGTLTFSKELP  
KSLAGGLLP SPLAVAAVMAAAAGSPLSLRPAPAAPLLQGPPITHPLLHPAPGP IRTAHGPILFSPY

3935/6881

**FIGURE 3626**

AGTTCACCCAATGGACCTGCCTACTGCAGCGTAGGCCTCGCCTCAACGGCAGGAGAGCAGGCGGCTGCGGTTGCT  
GCAGCCTTCAGTCTCCACCCGGACTACGCCATGTTGGGGTTTGTGGGTGCGGTGGCCGCTGCTCCGGCCTCCGGG  
GCCTTGCGGAGACTCACCCCTTCAGCGTCGCTGCCCCAGCTCAGCTCTTACTGCGGGCCGCTCCGACGGCGGTC  
CATCCTGTGAGGGACTATGCGGCGCAAACATCTCCTTCGCCAAAAGCAGGCGCCGCCACCGGGCGCATCGTGCGG  
GTCATTGGCGCAGTGGTGGACGTCCAGTTTGATGAGGGACTACCACCAATTCTAAATGCCCTGGAAGTGCAAGGC  
AGGGAGACCAGACTGGTTTTGGAGGTGGCCAGCATTGGGTGAGAGCACAGTAAGGACTATTGCTATGGATGGT  
ACAGAAGGCTTGTTAGAGGCCAGAAAGTACTGGATTCTGGTGCACCAATCAAAATTCCTGTTGGTCCTGAGACT  
TTGGGCAGAATCATGAATGTCATTGGAGAACCTATTGATGAAAGAGGTCCCATCAAAACCAAACAGTAAATTTGC  
TCCCATTATGCTGAGGCTCCAGAGTTCATGGAAATGAGTGTGAGCAGGAAATTCCTGGTGACTGGTATCAAGGT  
TGTCGATCTGCTAGCTCCCTATGCCAAGGGTGGCAAATTTGGGCTTTTGGTGGTGCTGGAGTTGGCAAGACTGT  
ACTGATCATGGAGTTAATCAACAATGTCGCCAAAGCCCATGGTGGTTACTCTGTGTTTGTGGTGGTGGTGAGAG  
GACCCGTGAAGGCAATGATTTATACCATGAAATGATTGAATCTGGTGTATCAACTTAAAAGATGCCACCTCTAA  
GGTAGCGCTGGTATATGGTCAAATGAATGAACCACCTGGTGCTCGTGCCCGGGTAGCTCTGACTGGGCTGACTGT  
GGCTGAATACTTCAGAGACCAAGAAGGTCAAGATGTACTGCTATTTATTGATAACATCTTTCGCTTCACCCAGGC  
TGGTTCAGAGGTGTCTGCATTATTGGGCCGAATCCCTTCTGCTGTGGGCTATCAGCCTACCCTGGCCACTGACAT  
GGGTACTATGCAGGAAAGAATTACCACTACCAAGAAGGGATCTATCACCTCTGTACAGG

3936/6881

**FIGURE 3627**

MYCYLLITSFASPRVLVQRCLHYWAESLLLWAISLPWPLTWVLCRKELPLPRDLSPLYRLSMCLLMT

3937/6881  
**FIGURE 3628**

CTTGGTTCGCGTTCCCTGCACAAAATGCCCGGCGAAGCCACAGAAACCGTCCCTGCTACAGAGCAGGAGTTGCC  
GCAGCCCCAGGCTGAGACAGGGTCTGGAACAGAATCTGACAGTGATGAATCAGTACCAGAGCTTGAAGAACAGGA  
TTCCACCCAGGCAACCACACAACAAGCCAGCTGGCGGCAGCAGCTGAAATTGATGAAGAACCAGTCAGTAAAGC  
AAAACAGAGTCGGAGTGAAAAGAAGGCACGGAAGGCTATGTCCAAACTGGGTCTTCGGCAGGTTACAGGAGTTAC  
TAGAGTCACIATCCGGAATCTAAGAAATATACTCTTTGTCATCACAAAACCAGATGTCTACAAGAGCCCTGCTTC  
AGATACTTACATAGTTTTTGGGGAAGCCAAGATCGAAGATTTATCCAGCAAGCACAACTAGCAGCTGCTGAGAA  
ATTCAAAGTTCAAGGTGAAGCTGTCTCAAACATTCAAGAAAACACACAGACTCCAAGTGTACAAGAGGAGAGTGA  
AGAGGAAGAGGTCGATGAAACAGGTGTAGAAGTTAAGGACATTGAATTGGTCATGTCACAAGCAAATGTGTCGAG  
AGCAAAGGCAGTCCGAGCCCTGAAGAACAACAGTAATGATATTGTAAATGCGATTATGGAATTAACAATGTAACC  
ATATGGAAGCAACTTTTTTTGGTGTCTCAAAGGAGTAACTGCAGCTTGGTTTGAAATTTGTACTGTTTCTATCAT  
AAATAAAGTTATGGCTTCTTGTTGGAAAAAAAAAAAAAAAAAAAAA



3938/6881  
**FIGURE 3629**

MPGEATETVPATEQELPQPQAETGSGTESDSDESVPLEEQDSTQATTQQAQLAAAAEIDEEPVSKAKQSRSEKK  
ARKAMSKLGLRQVTGVTRVTIRKSKNILFVITKPDVYKSPASDTYIVFGEAKIEDLSQQAQLAAAEKFKVQGEAV  
SNIQENTQTPTVQEESEEEEEVDETGVEVKDIELVMSQANVSRAKAVRALKNNSNDIVNAIMELTM

3939/6881

**FIGURE 3630**

CTGAGGGGTGTACATTTTATTGGAAACCTTAAATACTGTTTCAGAAAGAATATATCTTCAATCAAGGCTCTTGTGC  
AGCCTACACAGAAAAATGAAGCTTTTGGGTAGGGGCAAGGAGAGAGACAGTACAGAGGACAAAGACCCCTCAC  
GATGAATGCTCTTCAGCCAGCTTATCAGCTTTGCCACAGCTTCTTCAATGGGTCCCACCATATAGAAGGCCTGT  
TCTGGGAGATGGTCATATTCACCTGCCAAAATCTGCTGGAATCCTTTGATGGTCTCCTTCAGGGGTACCAGCTTC  
CCCATATGACCTGTGAAGACCTCAGCAACCTGGAATGGCTGAGACAAGAAACGCTGTATTTCCGTGCACGGGACA  
CGGTCAACTTGTCTTCCTCAGAAAGTTCATCCATACCCAGGATGGCAATGATATCTGGAAGGAATTTGTAGTCCT

3940/6881  
**FIGURE 3631**

CCTATTCTACGGCTGACCCCTGGTGGTCACGTGGATCTGTTGCCACGCAAGTCTGGGTCCTTCGGCGATTGACC  
GGGGTCCTTGCTGTTTCGGGAGCCTCTCCTAAGCTGCCTGTTTCGCGCGAGAGTTTGGAGGGGCGGGTTTGGGGTCG  
GTGTCTGATTGGGGCTCGCACCGCAGCACGCTGGAGTCCCGCTTAGGTACCGTTAGCGTCAGGGGAGCTGGGTC  
AGGCGGTCGCCGGGACACCCCGTGTGTGGCAGGCGGCGAAGCGCTCTGGAGAATCCCGGACAGCCCTGCTCCCTG  
CAGCCAGGTGTAGTTTCGGGAGCCACTGGGGCCAAAGTGAGAGTCCAGCGGTCTTCCAGCGCTTGGGCCACGGCG  
GCGGCCCTGGGAGCAGAGGTGGAGCGACCCCAATTACGCTAAAGATGAAGGCTGGGGTTGGCTGGCCCTGCTTCT  
GGGGGCCCTGCTGGGAACCGCCTGGGCTCGGAGGAGCCAGGATCTCCACTGTGGAGCATGCAGGGCTCTGGTGGA  
TGAAGTAGAATGGGAAATTGCCAGGTGGACCCCAAGAAGACCATTTCAGATGGGATCTTTCGGGATCAATCCAGA  
TGGCAGCCAGTCAGTGGTGGAGGTGCCTTATGCCCGCTCAGAGGCCCACCTCACAGAGCTGCTGGAGGAGATATG  
TGACCGGATGAAGGAGTATGGGGAACAGATTGATCCTTCCACCCATCGCAAGAACTACGTACGTGTAGTGGGCCG  
GAATGGAGAATCCAGTGAAGTGGACCTACAAGGCATCCGAATCGACTCAGATATTAGCGGCACCCCTCAAGTTTGC  
GTGTGAGAGCATTGTGGAGGAATACGAGGATGAACTCATTGAATTCCTTTCCCGAGAGGCTGACAATGTTAAAGA  
CAAACCTTTGCAGTAAGCGAACAGATCTTTGTGACCATGCCCTGCACATATCGCATGATGAGCTATGAACCACTGG  
AGCAGCCCACACTGGCTTGATGGATCACCCCGAGGAGGGGAAAATGGTGGCAATGCCTTTTATATATTATGTTTT  
TACTGAAATTAAGTAAAAAATATGAAACC

3941/6881  
**FIGURE 3632**

MKGWGWLALLLGALLGTAWARRSQDLHCGACRALVDELEWEIAQVDPKKTIQMGSFRINPDGSQSVVEVPYARSE  
AHLTELEEICDRMKEYGEQIDPSTHRKNYVRVVGGRNGESSELDLQIRIDSDISGTLKFACESIVEEYEDELIE  
FFSREADNVKDKLCSKRTDLCDHALHISHDEL

3942/6881  
**FIGURE 3633**

GGCCTCATCATTTCTGTCTCCTGTTTCTCCACTTCCTTCTCTATTGGTTGGTCCACTGATGTATGGACTTGACACA  
TGATGAACTGTGAACTTCTAGCCACATGTAGTGCCCTTGGGTACTTGGAGGGAGACACTTACCATAAGGAACCAG  
ATTGCTTAGAGAGCGTGAAGGATCTGATCCGCTATTTGAGGCATGAGGATGAGACACGAGATGTGCGGCAGCAGC  
TGGGGGCAGCCCAGATCCTACAGAGCGACCTTCTGCCCCATCCTCACCAGCACCACCAGGACAAGCCTCTCTTTG  
ATGCTGTTATCCAGACTGATGGTGAACCTTGACACAACCAGCCTTGCTCTGTTTTGGCAATCTGCCTAAGGAGCCC  
AGCTTTCGGCACCATTTTTTGCAGGTGCTAACTTATTTGCAGGCCTACAAAGAGGCCTTTGCCAGTGAGAAGGCT  
TTTGGAGTCTCAGTGAAACCTTGTATGAGCTGCTGCAGCTGGGCTGGGAGGAACGGCAGGAGGAAGACAACCTG  
CTGATTGAACGGATCCTACTGCTGGTCAGAAATATTCTCCATGTCCCAGCTGACCTTGATCAGGAGAAGAAGATT  
GATGATGACGCCAGTGCCCATGACCAGCTCCTCTGGGCGATTACCTCAGCGGCCTGGATGACCTGCTCCTCTTT  
CTGGCCAGCTCGTCTGCTGAGGAGCAATGGAGCCTACATGTGCTAGAGATTGTCTCCCTTATGTTTCGTGACCAG  
AACCCCGAGCAGCTGGCGGGAGTAGGGCAGGGACGCTTAGCTCAGGAGCGGAGTGACAGATTTGCAGAACTGGAG  
GTATTGCGCCAGCGAGAGATGGCAGAAAAGAAGACTCGAGCCCTCCAGCGAGGCAACAGGCATTCTCGATTTGGG  
GGCTCCTATATTGTCCAGGGGTTGAAATCCATTGGGGAGAGGGACCTCATCTTTCACAAAGGCCTTCACAACCTA  
CGAAACTACAGTTCAGATTTGGGAAAGCAGCCGAAAAAGGTGCCTAAACGTGCGCCAGGCCGCCGAGAGCTGTCC  
ATTCAGCGCCGTTCTGCCCTCAATGTGAGGCTCTTCCTCAGAGACTTCTGCTCTGAGTTTCTGGAGAACTGTTAC  
AACCGGCTCATGGGATCAGTAAAGGATCACCTGCTTCGGGAGAAAGCTCAGCAGCATGATGAGACCTATTATATG  
TGGGCCTTGGCTTTCTTCATGGCCTTCAACCGAGCTGCCTCCTTCCGGCCAGGCCTGGTTTCTGAGACCCTCAGT  
GTCCGTACCTTCCACTTCATTGAGCAGAACCTCACCAACTACTATGAGATGATGCTGACTGACCGCAAGGAAGCT  
GCCTCCTGGGCACGCCGGATGCACTTGGCTCTGAAGGCCTATCAGGAGCTGCTGGCAACAGTGAATGAGATGGAC  
TTATCTCCAGATGAGGCTGTGAGGGAGAGCAGCCGCATCATCAAGAACAATATTTTCTATGTGATGGAGTACCGA  
GAACTATTCTGGCACTTTTTCGAAAGTTTGATGAGAGATGCCAGCCCCGCTCTTTCCTTCGTGACCTGGTGGAG  
ACCACCCACCTCTTCCTCAAAATGTTGGAGCGATTCTGTTCGGAGCCGTGGGAACCTGGTGGTGCAG

3943/6881  
**FIGURE 3634**

ATGGAGGTGACATCATGTGGACAACAGGCTAGGATGCCAGAGTTAGCTGCTCGGTGGAGATCATTGAGAATGCA  
TCTTGTCTTGTCTTGCAGCCCGGCATGCCAGTGCTTCCTCCACGAATTTGAAAGACATATTGGCTGACCTGATA  
CCTAAGGAGCAGGCCAGAATTAAGACTTTCAGGCAGCAACATGGCAAGACGGTGGTGGGCCAAATCACTGTGGAC  
ATGAAAAGTAAACTACACCTGACGCTGAGACTCAAAGTGTGCAAGAGTCCCAAGGACAAAGAGGAGGGCCTGAA  
GGACCCACTCTTGTGCTCGGCGTGGTCACCGAAGGCTTAAATAATAGGCTTGGAGAAATGGAAACAGGCAGTTCG  
GGAAGTACAAGGCCCTTCCTACAAAGCAGAGGACGAAATTAGCCACTGCTCCAGAGTGA

3944/6881

**FIGURE 3635**

GAGGACCCCGGGCTGGGCGCCGCCGCCGATCCCGGAGATCGCCCGCCATGGCTTTACTTACTGCGGCCGCGCCGGC  
TCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCCGGCATGCCAGTGCTTCCTCCACGAATTTGAAAG  
ACATATTGGCTGACCTGATACCTAAGGAGCAGGCCAGAATTAAGACTTTCAGGCAGCAACATGGCAAGACGGTGG  
TGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATTGGTCTATGAAACATCAGTTC  
TTGATCCTGATGAGGGCATCCGTTTCCGAGGCTTTAGTATCCCTGAATGCCAGAACTGCTACCCAAGGCTAAGG  
GTGGGGAAGAACCCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGACATATCCCAACAGAGGAACAGGTAA  
AGCAGAAGGATATTATTAGCTCTTCTCATTCCCTTCTTCATTGCCTTTCTCTAATCTCAGACACTTAATGCTGA  
TCCGGCATTATATAGAGATGCGTAGTGAAGGGAAGGAATCAGCAGAGTTCTGCTGTATAAATGGATTGGGTTGACC  
TCTCTTGGGTTTTCTTTACTCAGATGTTGCTGTCCTTTTTTATTTTTCTCCTTCCTTGTCTTCTGCTGTTCTG  
AGCACTGTCTCTTTTTCCACAGGTATCTTGGCTCTCAAAGAGTGGGCAAAGAGGGCAGCTCTGCCTTCCCATGT  
GGTCACCATGCTGGACAACTTTCCACCAATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAA  
CAGTGAAAGTAACTTTGGCCGAGCATATGCACAGGTATCAGCCGAACCAAGTACTGGGAGGTAGGAAATTTGGG  
TGGGGTGATCGGTGTGTGATG

3945/6881  
**FIGURE 3636**

GCTAATGAATGAATGTGATCATTAAAAAGAAAGTCTCTTTCAGTATGAGAGAGAGAAAACAGAAGTAGTAGTGGT  
TGTGAGACAACCTTCAACAAGAAGTGGCTGACAGCGTAAAAAAATTAACGACGTTAGAGTCTCCACTGGAAGGTAT  
ATCATGTTGTGTCACATTAATTTGGATGAGACACAGGCCTCAAATAAGAAATTATTTCAAGTGAAAAGTCAAATATA  
AGAACTCCTGGAAATGACAATAAATATGTTAAATGTATTTGGAAATGAAGACTTTGATTGCCATGGAGACTTAA  
AAACAGATCAACTGAAAATGGATATTCTGATTAAGAAGCTAAAAACAGAAGTTTGATGATCTTACAGCACAGAAGG  
AAGCTTTATCTTCAAAATGTGTCAATTTGGCTAAAGACAATCAAGTTCTTCAACAGGAGTTTTTATCTATGAAAA  
AAGTACAACAGCAATGTGAAAACTTGAGGAGGATAAAAAGATGTTGAAAGAAGAAATATTAAATCTTAAGACAC  
ATATGGAAAACAATAGGGTAGAAATTAGTAAACTACAAGATATAAATTGGAGCTAGATGAAAAGGCAATGCAGG  
CAGTAGAAAAAATTAGAAGAAATCCATTTACAGGAACAAGCACAAATATGAAAAACAATTAGAGCAGTTAAACAAGG  
ATAATATGGCTTCACTAAATAAAAAGGAAGCTCACACTTAAAGATGTGGAATGTAAATTCTCAGAAATGAAAAGT  
CTTATGAAGAGGTTACAACCGAATTAGAAGAAATATAAGGAAGCCTTTGCAGCAGCATTGAAAGCTAAACAATTCCA  
TGTCAAAAAAGTTAACAAAATCAAATAAGAAAATAGCAGTGATTAGCATGAAGCTCCTCATGGAGAAAAGAGCAGA  
TGAAATATTTTCTCAGTGCTCTTCTTACAGGCGAGACCCAGAGTCACCTTGTGTTGAAAATCTTACTAGTATAG  
GACTCAACAGAAAATATATTCCCCAACACCCATAAGAATTCCATTTTCAAGCCACAGACTTCAAAATAACTGCA  
AGAACTCCTAGACTGTGATGGAGCTGGACTGTGTAGAACAATAACTAGAGAAAACAAAGAGAATTGTTGCTGTGT  
TGAACACTTGCTCCCGTCTACTTACTTCTCTATAATCCACTGCCATGGAATGAGTGATTTTTCTTAGAAGCAGAG  
GTGGAGCCACTGAGGAAGCACAGGCGAGCCCTCCCCAGCACGTGCTCACTGGTCCCCAACAGAACACCGCTGCC  
GCATCCATGAGGCTCCCATTTGTGGTGGGTTGTGTGTCACCCACAATGTCACCTGTTGCTGAGCCCCCATCGCCTCTG  
TGTGTGGAGCAGTTAGAGACACACTGTGGTGTCTGAGTGGCTCTGTGTGAAGGACCGTTTTCTAGGTGAGAGGC  
ACATCTCAACACAGCTGACTGATCAGACTCAACCATTTTGACACCCCTGGTCAGAATGAAACATTCTTGGGAAC  
TCGGGCCGTGAGAAGCATCCTTCCTGATCACTGACTGTAGAAACATCCTTATCGCACCCCTCCCGGGCAAAGGCC  
CAACAGCCTGACTGCAGGAACATCCTTGCCATATCCTGCCGGGCAGCAAGCTCTACCGCCACGCCCTCCTTCC  
CAGTCCCATGATCACCCAGCCTGTGAGAGGCAGTTGGTGTGGCAGTAAGCTGGTTTCTCTCTGTCAGGGTTT  
TGCTAGTAATAAAGGTGTTGCTGTTGAAGCCGTCAAAAAAAAAAAAAAAAAAGGCCAGCATCGAGTCGGCCTTGT  
TGGATTCTGGGGCCGAGGTCGAGCCCGCCGCTGCCGCCGTGCGCTGAGGGAAGCGAGAAGAGGCCGCGACCGGA  
GAGAAAAAGCGGAGTCGCCACCGGAGAGAAGTCGACTCCCTAGCAGCAGCCGCCGAGAGAGGCCCGCCACCA  
GTTCCGCCGTCCCTTGCCCCGTTTCAATGCAGCCTGCTTCTGCAAAGTGGTACGATCGAAGGGACTATGTCTT  
CATTGAATTTTGTGTTGAAGACAGTAAGGATGTTAATGTAAATTTGAAAAATCCAACTTACATTAGTTGTCT  
CGGAGGAAGTGATAATTTAAGCATTAAATGAAATTGATCTTTTTCACTGTATTGATCCAAATGATTCCAAGCA  
TAAAGAACGGACAGATCAATTTTATGTTGTTTACGAAAAGGAGAATCTGGCCAGTCATGGCCAAGGTTAACAAA  
AGAAAGGGCAAAGCTTAATTGGCTTAGTGTGCGACTTCAATAATTGGAAGACTGGGAAGATGATTCAGATGAAGA  
CATGTCTAATTTTGATCGTTTCTCTGAGATGATGAACAACATGGGTGGTGATGAGGATGTAGATTACCAGAAGT  
AGATGGAGCAGATGATGATTCACAAGACAGTGATGATGAAAAATGCCAGATCTGGAGTAAGGAATATTGTCTATC  
ACCTGGATTTTGAGAAAGAAAAATAACTTCTCTGCAAGATTCATAATTGAGAGAATTCCTGAGTTGATAGCTCT  
AAAGGCAGATATGCTGTATTGCTTACTTTAACCCTTTTTCAACCTGTTTGTGTTTTTAAAGGCTTCACTAAGG  
GTTGATATGTACCATTTGATGGGGCAATTTAAGTCAGCTAAGGCAATAACCTTATGCATGAGCATTTCCAGAC  
TTTCATGAAGCTGTTGAGGTCCTAGGCAATTAATGCAGCAGTTGCGATAAATAAAAACATCTCACCTAAGTCTCC  
TTTTCTTCATAACATAGATACTGACATGATAGGAAGCTCTCAGCTTAGGGAAAGAGAATAAATTTAGATTATAG  
AACATGGATTCAAAGTGACTGGAACAAATTGGCTGACACCTTACTGGTAACCTGCTATTCTTCTGGTGTTATCC  
TTCAGGATTGTTCCACTAAAATTTATTTTCAAAAAATTTACTTCACATTATCTATGTAAGTGATGACTTGTC  
GTGTTCCAGGTGTATCTTAGCTAAACTAGAGAATGCCCTAACTTAGATGGTTTTTGAAGCCTATACAATTGGTA  
TTGTTTGACCCCTAAGCTTTTACATCTCTTAGCATGGAGGACGAAGAAAGCTGTACATTGTTGCTTGAGAGTCTG  
TACATTTAGTCCAGATTGTATTTGCACTGTGAGTGGCAATGAGTGAAAAATGTTTAAATACACTATTGGATT  
TTTTATTTCTTTTTTTGATTGAGCTTATACCCGGGCTGAAAACCTCAATTTATGTTTATGACAGTGGGGATTTT  
TTAAATGTCTACATTTCTTCTAATAAACTGTTGGAAGACTT



3946/6881

**FIGURE 3637**

MTINMLNVFGNEDFDCHGDLKTDQLKMDILIKKLKQKFDDLTAKQALSSKCVNLAKDNQVLQQEFLSMKKVQQQ  
CEKLEEDKKMLKEEILNLKTHMENNRVEISKLEQYKLELDEKAMQAVEKLEEIHLEQEAQYEQLEQLNKDNMAS  
LNKKELTLKDVECKFSEMKTAYEEVTTLEEEYKEAFAAALKANNMSKSLTKSNKKIAVISMKLLMEKEQMKYFL  
SALPTRRDPESPCVENLTSIGLNRKYIPQTPIRIPISSPQTSNNCKNS

3947/6881  
**FIGURE 3638**

GACGACCTGTCTCGCTGCGTGACGCCCTGCCGCCGCCCGCAGAAATGCTTCGGTTACCCACAGTCTTTCGCCA  
GATGAGACTGGTGTCCAGGGTGTGGCTCCTCATCTCACTGGGGCTTATGCCAAAGATGTAAAATTCGGTGCAGA  
TGCCCGAGCCTTAATGCTTCAAGGTATAGACCTTTTAGCCGATGCTGTAGCCCTTACAATGGGGCCAAAGGGAAG  
AAGAACAGTGATTATCGAGCAGAGCTGGGGAAGTCCCAAAGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAAT  
TGACTTAAAGGATAAATATAAAAAACATTGGAGCTAAACTTGTTCAGATGTTGCCAATAACACAAATGAAGAGAC  
TGGGGATGGCCCTACCACTGCTACTGTACTGGCAGCTCTATAGCCAAGGAAGGCATCGAGAAGATTAGCAAAGG  
TGCTAATCCAGTGGAATCAGGAGAGGTGTGATGTTAGTTGTTGATGCTGTAATTGCTGAACTTAAAAAGCAGTC  
TAAACCTGTGACCACCCCTGAAGAAATTGCACAGGTGTCTACAATTTCTGCAAACGGAGACAAAGAAATTGGCAA  
TATCTCTGATGCAATGAAAAAGGTTGGAAGAAAGGGTGTCTACAGTAAAGGATGGAAAAACACTGAATGATGA  
ATTAGAAATTATTGAAGGCATAAAGTTTGTATCGAGGCTATATTTCTCCATACTTTATTAATACATCAAAGGTCA  
GAAATGTGAATTCCAGGATGCCATGTTCTGTTGAGCGAAAAGAAAATTTCTAGTGTCCAGTCCGTTGTACCTGC  
TCTTGAAATTGCCAATGCTCACCCTAAGCCTTTGGTCATAATCGCTGAAGACGTTGATGGAGAAGCTCTAAGTAC  
ACTCGTCTTGAATAGGCTAAAGGTTGGTCTTCAGGATGTGGCAATCAAGGCTCCAGGGTTTGGTGACAATAGAAA  
GAACCAGCTTAAAGATATGGCAATTGCTACTGGTGGTGCAGTGTGTTGGAGAAGAGGGGCTGACCCTAAATCTTGA  
AGATGTTACAGCTCATGACTTAGGAAACGTTGGAGAGGTCAATTGTGACCAAAGATGATGCCACGCTCTTAAAGA  
AAAAGGTGACAAGGCTCAAATTGAAAAACGTATTCAAGAAATCATTGAGCAGTTAGATGTCACAACACTAGTGAATA  
TGAAAAGGAAAAACTGAATGAACGGCTGGCAAACTTTTCAGATGTAGTAGCTGTGCTGAAGGTTGGTGGGACAAG  
TGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTCGGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGAAGGC  
TTTGTATTGGGAGGGGGTGTGCCCTGCTTCGATGCATTCTAGCCTTGGACTCATTGACTCCAGCTAATGAAGAT  
CAAAAAATTGGTACAGAAATTATTAAAGAACACTCAAAATTCAGCAATGACCATTGCTAAGAATGCAGGTGTTG  
AAGGATCTTCGATAGTTGAGAAAATTACGCAAATTCCTCAGAAGCTGGTTATGATGCTATGGTTGGAGATTTTG  
TGAATATGGTGGAAAAATGAATTATTGACCCAAACAAAGGTTGTGAGAACTGCTTTATTGGATGCCGCTGGTGTGA  
CCTCTCTGTTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCTGGAATGGGTGCAA  
TGGGTAGAAATGGGAGGTGGTATGGGAAGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACCTTTATTAATGAAC  
TGTGACAGGAAGCCCAAGGCAGTGTTCCTCACCAATAACTTCAGAGAAGTCAGTTGGAGAAAAATGAAGAAAAAG  
GCTGGCTGAAAACTACTATAACCATCAGTTACTGGTTTCAGTTGACAAAATATATAATGGTTTACTGCTGTCATT  
GTCCATGCCATAGATAATTTATTTGTATTTTGAATAAAAAACATTTGTACATTCCTGATACTGGGTAAAAGA  
GCCATGTACCAATGTATGGCTTCAACTTAAATCACTGAGGCATTTTACTACTATTCTGTTAAAATCAGGATTT  
TTAGTGCTTGCCACCACCAGATGAGAAGTTAAGCAGCCTTTCTGTGGAGAGTGAGAATAATTGTGTACAAAGTAG  
AGAAATATCCAATTATGTGACAACTTTTGTGTAATAAAAAATTTGTTTAAAGTT

3948/6881  
**FIGURE 3639**

MLRLPTVFRQMLVSRVLAPHLTGAYAKDVKFGADARALMLQGIDLLADAVALTMGPKGRRTVIEQSWGSPKVT  
KDGVTVAKSIDLDKYKNIGAKLVQDVANNNTNEETGDGPTTATVLARSIAGEGIEKISKGANPVEIRRGVMLVVD  
AVIAELKKQSKPVTTPEEIAQVATISANGDKEIGNISDAMKKVGRKGVITVKDGKTLNDELEIEGKFDGRYIS  
PYFINTSKGQKCEFQDAYVLLSEKKISSVQSVPALEIANAHKPLVIAEDVDGEALSTLVNLRLKVGLQDVAI  
KAPGFGDNRKNQLKDMAIATGGAVFGEEGLTNLEDVQPHDLGNVGEVIVTKDDATLLKEKGDKAQIEKRIQEI  
EQLDVTTSEYEKEKLNERLAKLSDVAVLVKVGTSDEVNEKKDRVRMPLMLQELLKKALYWEGVVPCFADF

3949/6881  
**FIGURE 3640**

GTGCGGTGGTCAGGAACGAGGAGACTCCACTAAGTTCCTTGTGTTGCCTTCATTTTCATTCCCCCAACCCCCAAT  
GAATTTTAGCCAAATGGAGCGGAGTCCCTGAAAGATTTTGGCAGGAAGATCTGGAAGAAGAGGAAAAACCTGCCT  
GAGGAAGACAGCGAAGAGGAAGAAGAAGGGGGCTCAGAAGCAGAACAAGTCCAGGGTAGCTTAGTCCTTTCAAT  
GAAAACCTTGGTCAAAGCCTGCATCAGGAAGGCTTTTCTATCCCGCTCCTATGGCTCCAGAACTGCCTGATCCGA  
GCAGCTGATGATCGGGAAGAGGATGGCTGCTCCAGGCCGTTCCATTGGTGCCACTCACAGAGGAAAAATGAGGAA  
GCCATGGAAAACGAACAGTTTCAGCAGCTGTTGCGCAAGCTAGGGGTTTCGGCCCCCTGCCTCTGGGCAGGAAACC  
TTCTGGCGAATTCCAGCCAAGCTGAGTCCACCCAGCTCCGGAGGGCAGCAGCTTCTTTGAGTCAACCAGAGGAG  
GAACAGAAGCTGCAGCCAGAGCTGCAGCCTAAAGTCCCTGGAGAGCAAGGCTCTGATGAGGAGCACTGTAAAGAG  
CACCGAGCACAAGCCCTGAGGGCCCTCTTGCTAGCCCAAGAAGAAAGCGGGCCCTGGCATCCCCAGAGGAGGAA  
GACGCTGTTGGTAAAGAGCCGCTGAAGGCAGCACCCAAGAAACGACAATTGCTGGACAGCGACGAGGAACAGGAA  
GAAGATGAGGGCAGGAACAGAGCACCAGAGTTGGGAGCTCCAGGAATCCAAAAGAAGAAACGATACCAGATTGAG  
GATGATGAGGATGACTGAAGAGCTAAGAAGCCTAGGGGTAGAGATAGACACGTTTTTAGATGGTGCATTCAAGTC  
AGAGTTGGAAGGGTCATACAGGACCCAGAAGCTCCTCTTACTGGACAGAGCAGTAGAATCCAGGCTCTTTCACG  
GATTTAGGCTGAGAACTTCAGCAGCAGTATTGGACTTCTCTGCTGTCAGTCTTTGTTTCTCCAGTTTTTATCG  
GTATGCCCCAGCAGCTCTCTGGAGATTTAGTTCTCTTCTTAGGAACATTTCTTTTGGTTATTGGAGCTCCTT  
AGCAAATAAGAGGAGTGAGTGAAATAGAGAAAGCACCCCGGACCCCTTTTATTGGTCTGTTCCTTTGGCTTTCTC  
TTGGAGGTGGGTGCGCAGCACCAGATGGGGAGCTTTATGACATGACAGGCGGGAGTTTGTACCACTTTTAGAAGA  
TACCAGATGCCTCTGTCTCATTTTGTTCCTATGATCATCCTCTAGATACCAGATAGAGGCCCATTCCTGCATT  
TGAGATAGGGTTGGAATATAGTACTCTAGATGATGAATGTGTTTGTCTTGTGTTGGTATTAAACATGTAAGATT  
AGAAGTTCTCATCTCAGTCTGACTTGCGGATATGTCTAAGTTCCCCAGCCCTTCCCTGCTGTGCTCTTGAAAGA  
AGAACTTAACAATTTTAGGGTAAAAAGAGACCAACAGACCGGCACAGTGGCTCAAACCTGTTGTCCTAGCACTTT  
GGGAGGCTGAGGCGGGCGGATCACCTGAGGTGAGGAGTTGAGACCGGCCTGGACAATATGGCGAAATCCCATCT  
CCACTAAAAATACAAAAATTAGCCGGCCATGGTGGCATGCGCTGTAATCCCAGCCACTCGGGTGGCTGAGGCAG  
GAGAATTGCCTGAACCCAGGAGGCAGAGTTGCGAGTGAGCTAAGGTCACGCCAGTGCATATGCCTGGGCGACAGA  
GCAAGACTCTGTCTCAAAAAAAGAAAAAAGACCAACAACCTTCCCTTTTCTCCGCTTCCCTACAG  
AAGACACAGAAAAGCATTTTGCCTCTAGATCCTTTGTCTAGGGTAAATTCTTAGGGTGACAAGAGTATGCGGC  
AGGAAGAAGGAGGAGCCATAAAGGAAGAGAAGCCAGCTTGTTGGCATGGGGCATAGAAAAGGACAAAATCTAGGC  
ATGAAAAGGATGGATAAATACTGCAAATATTATGTTCTTACCCATTCTTGAAACGTCAGCTTTCTTGCTTCCTG  
TGCTTCAGCCGAGGTAGGGCAAAGGTGAGATTGAGAAAATAGCCATTCAGCTCAGGAAGGCTTCTAAGTAAAGG  
ATGGATTGGA

3950/6881  
**FIGURE 3641**

AGTTGATTTATGAAGACTCTATGGATCTAATCGCAAAGCTACCTTGTGTTGCAGCAAAGATCTACCGAAATCTCT  
ACAGAGAAGGCAGCGGTATTGGGGCCATTGACTCTAACCTGGACTGGTCTCACAATTTACCAACATGTTAGGCT  
ATACTGATCATCAGTTCAGTCTGAGCTCAGCGCCTGTACCTCACCATCCACAGTGACCATGAGGGTGGCAATGTAA  
GTGCCCATAACAGCCATTTGGTGGGCAGTGCCCTTTCCGACCCTTACCTGTCCTTTGCAGCAGCCATGAACGGGC  
TGGCAGGGCCTCTCCATGGACTGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCA  
AAGATGTGTCAGATGAGAAGTTACGAGACTACATCTGGAACACACTCAACTCAGGACGGGTTGTTCCAGGCTATG  
GCCATGCAGTACTAAGGAAGACTGATCCGCGATATACCTGTCAGCGAGAGTTTGCTCTGAAACACCTGCCTAATG  
ACCCCATGTTTAAGTTGGTTGCTCAGCTGTACAAGATTGTGCCCAATGTCCCTCTTAGAGCAGGGTAAAGCCAAGA  
ATCCTTGGCCCAATGTAGATGCTCACAGTGGGGTGCTGCTCCAGTATTATGGCATGACGGAGATGAATTACTACA  
CGGTCTGTTTGGGGTGTACGAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTC  
TAGAAAGGCCCAAGTCCATGAGCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAA

3951/6881  
**FIGURE 3642**

AAAGCTTGTTTGGACGACCTTCGTCTGGGATGCACTCTTCTCTCCTTCACCTACAAATGATAGAGGATTACGAA  
GAACTATACGGTTGGCTCCTCTTTCTTTGGCCTTAGGTTTCTGACCTCCTGCAGCCTCCTCTTGCCTCGGGCTG  
CCCAGATCTTGGCGGCTGAGGCTGGCTTACCTTCGAGCCGTTCCCTTCATGGGATTGCTGCTCCCTTCACCAACA  
AGCGAAAGGCTTACTCGGAGCGTAGAATCATGGGGTACTCAATGCAGGAGATGTATGAGGTGGTGTCCAACGTCC  
AGGAGTATCGTGAGTTTGTGCCCTGGTGTAAAGAAGTCTCTGGTGGTATCCAGCCGTAAGGGTCATTTGAAAGCCC  
AGCTGGAGGTTGGCTTTCCACCTGTTCATGGAACGTTACACCTCTGCAGTTTCCATGGTCAAACCTCACATGGTCA  
AGGCTGTTTGTACTGATGGCAAGCTCTTCAACCACTTAGAGACTATTGGCGATTGAGCCCTGGTATTCCTGCCT  
ATCCTCGAACCCTGCACTGTGGACTTTTCGATTTCCTTTGAATTCGTTCTCTGCTGCACTCCCAGCTGGCCACCA  
TGTTTTTTGATGAGGTTGTCAAACAGAATGTTGCTGCCTTTGAGCGTCGGGCAGCCACCAAGTTTGGTCCAGAAA  
CAGCCATCCCCCGTGAACCTGATGTTCCATGAGGTGCACCAGACTTGAGGCAAGGGATTGCTCCCTGACCTCCCTT  
CTACCCCACTTCCCTACACAATTCTCTTATTTATTTGGTTTGGCTCCTGTTCCAATTTGAAAGGAGTCTGTGTTT  
ATAATACTGTTTCTCCTCTCAATTTCCCAGAAATTGGGTTCTATGCTGGCTGGAAATGTTGGGGGAAAGAGAAGG  
CAAAGGATGTGGAAATGAGATGTGCTTAGGAAAGGGTCAGGCCCATCGTAGGAGCACCATATGCCTGCAGCCTTT  
TCACTACGAATTAGAATAAGGACTATGTGGTTGTCTCTGGACCTTATCAAGACACCTTAGTGTCTGACCAGGGGA  
CGATAGTAACTTTCTAAGGATTGAATAAATTGAGCTTTTCTTCTGGCACAGAGGTACTGAGTGGTAAGTAACCT  
TTACCTGCCTGAGATTCTTCAGGAGAAAAGGCAACCTGCCTCCAGCCTGAAATACATAAAGCCTCATTTTAAGA  
CTGTAAGTCCATGCTGCCTGGCTACTAGAGAGCAAGGGGCTTTCTTACCACCAAGTCTGAGGAGAAAAGTACTGA  
ACGGAAACGGAGTTGTCTTTGTACTCTTGAGTTGTACCTTATTCTTCCACTTGGCCTGAGTTTTTATAAAATTC  
AATAAATTGTGACAGTGTG

3952/6881  
**FIGURE 3643**

GGCACGAGGAGGGGTTGAGGCTGCCTGACCCCAGCCTAATGGGGTAGGTAGGCCTTGGGAAGTGGAGCATGGGGG  
CAAAGGATCCAAGCATTGAGCCTTCATCCTCTATTCCCCATCCAGTGGGGTGCCGAGGCTCAGGCAGCATGACGA  
CGGAGACCTTTGTGAAGGATATCAAGCCTGGGCTCAAGAATCTGAACCTTATCTTCATTGTGCTGGAGACAGGCC  
GAGTGACCAAGACAAAGGACGGGCATGAGGTTTCGGACCTGCAAAGTGGCGGACAAAACAGGCAGCATCAATATCT  
CTGTCTGGGACGATGTTGGCAATCTGATCCAGCCTGGGGACATTATCCGGCTCACCAAAGGGTACGCTTCAGTTT  
TCAAAGGTTGTCTGACACTATATACTGGCCGTGGGGGTGATCTGCAGAAGATTGGAGAATTCTGTATGGTTTATT  
CTGAGGTTCCCTAACTTCAGTGAGCCAAACCCAGAGTACAGCACCCAGCAGGCACCCAACAAGGCGGTGCAGAACG  
ACAGCAACCCTTCAGCTTCCCAGCCTACCACTGGACCTCTGTCTGCCTCTCCAGCCTCTGAGAACCAGAATGGGA  
ATGGACTGAGTGGCCACCAGGTCCCGGTGGTGGCCACATCCCCCTCATACTCCCTCCCACCCACCCAGCACCC  
GAATCACTCGAAGCCAGCCCAACCACACACCTGCAGGCCCGCCTGGCCCTTCCAGCAACCCTGTAGTAACGGCA  
AAGAAACCCGGAGGAGCAGCAAGAGATAGCATGACATTCTTTCTTCCTGCCACCAACCACATCCCAAGTGTCCCC  
TGGAGAGCAAGATAGCCTTCCACTGATTGGCTGGTGTAGCAGTATTTTAGCCACTGAACTTCACTGGAGGGTGGT  
GAGCAGTGTCTTATCCACCCTAATCTCATACTCCCTCATTGTCCAGCTGAACTACCTGTCCCTGGGAGTCAGG  
ACCTCTGCCTGCTCTCTTTCTCTTTAGAAATGGCAGTTACTGGCTGGGCGCAGTGGCTCACGCTTGTAATCCC  
AGCACTTTGGGAAGCCGAGGTGGGCGGATCACCTGAGGTCGGGAGTTCAAGACCAGCCTGACCAACATGGAGAAA  
CCCCGTGTCTACTAAAATACAGAATTAGCCAGGCATGGTGGCGTATGCCTGTAATCCAGCTACTTAGGAGGCT  
GAGGCAGGAGAATCTCTTGAAACCGGGAGGCGGAGGTTGAGGTGAGCCGAAATTGCACCATTGCACTCCAGCCTG  
GGCAATAAGAGCGAACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3953/6881  
**FIGURE 3644**

MTTETFVKDIKPGLKNLNLIFIVLETGRVTKTKDGHEVRTCKVADKTGSINISVWDDVGNLIQPGDIIRLTGYA  
SVFKGCLTLYTGRGGDLQKIGEFCEMVYSEVPNFSEPNPEYSTQQAPNKAVQNSNPSASQPTTGPSAASPASENQ  
NGNGLSAPPGPGGGPHPPHTPSHPPSTRITRSQPNHTPAGPPGPSSNPVSNGKETRRSSKR



3954/6881  
**FIGURE 3645A**

GGCGGGCGGCGGCGGGGCCCCGAGCCGGAGAAGATGGCGGTGCGGAAGAAGGACGGCGGGCCCCAACGTGAAGTACT  
ACGAGGGCCGCGGACACCGTGACCCAGTTCGACAACGTGCGGCTGTGGCTCGGCAAGAAGTACAAGAAGTATATAC  
AAGCTGAACCACCCACCAACAAGTCCCTGTCTAGCCTGGTTGTACAGTTGCTACAATTTTCAGGAAGAAGTTTTG  
GCAAACATGTGAGCAATGCACCGCTCACTAACTGCCGATCAAATGTTTCTAGATTTCAAAGCGGGAGGCTCCT  
TGTGCCACATTCTTGAGCTGCCTACAAATTCAGAGTGACCAAGGATGGCGCGTTACGATTTCCAGAATCCAT  
CACGCATGGACCGCAATGTGGAATGTTTATGACCATTGAGAAGTCCTTGGTGCAGAATAATTGCCTGTCTCGAC  
CTAACATTTTTCTGTGCCGAGAAATGAGCCCAACTACTAGGGAAATTAAAGGACATTATCAAGAGACACCAGG  
GAACAGTCACTGAGGATAAGAACAATGCCCTCCCATGTTGTGTATCCTGTCCCGGGGAATCTAGAAGAAGAGGAAT  
GGGTACGACCAGTCATGAAGAGGGATAAGCAGGTTCTTCTGCACTGGGGCTACTATCCTGACAGTTACGACACGT  
GGATCCAGCGAGTGAAATGAGGCATCTGTGAAGATGCTCCAACCTCTGAGAAACCTAGGAAGGTTTCATGCAA  
AGTGGATCCTGGACACCGACACCTTCAATGAATGGATGAATGAGGAAGACTATGAAGTAAATGATGACAAAACC  
CTGTCTCCCGCCGAAAGAAGATTTAGCCAGACACTGACAGATGAGGTGAACAGCCAGATTGAGATCGACGGG  
ACAAGAAGGGGGGAAACTATAAGAAGAGGAAGCGCTCCCCCTCTCCTTACCAACCCAGAAAGCAAGAAGAAAA  
ATGCTAAGAAAGGTCCCTCAACACCTTACACTAAGTCAAAGCGTGGCCACAGAGAAGAGGAGCAAGAAGACCTGA  
CAAAGGACATGGACGAGCCCTACCCAGTCCCAATGTAGAAGAGGTGACACTTCCCAAAACAGTCAACACAAAGA  
AAGACTCAGAGTCGGCCCCAGTCAAAGGCGGCACCATGACCGACCTGGATGAACAGGAAGATGAAGCATGGAGA  
CGACGGGCAAGGATGAGGATGAGAACAGTACGGGGAACAAGGGAGAGCAGACCAAGAATCCAGACCTGCATGAGG  
ACAATGTGACTGAACAGACCCACCACATCATCTTCCAGCTACGCTGCCTGGTTTACTACAATAGTGTTCATG  
CCATTGAGCGGAGGGCTCTCCCGAGTTCTTCAACGGCAAGAACAAGTCCAAGACTCCAGAGATCTACCTGGCCT  
ATCGAACTTTATGATTGACACTTACCGACTGAACCCCCAAGAGTATCTTACCTCTACCGCCTGCCGCCGAAACC  
TAGCGGGTGATGTCTGTGCCATCATGAGGGTCCATGCCTTCCTAGAACAGTGGGGTCTTATTAACCTACCAGGTGG  
ATGCTGAGAGTCGACCAACCCCAATGGGGCCTCCGCCTACCTCTCACTTCCATGTCTTGGCTGACACACCATCAG  
GGCTGGTGCTCTGTCAGCCCAAGACACCTCAGGGCCGCCAGGTTGATGCTGATACCAAGGCTGGGCCGAAAGGGCA  
AAGAGCTGGATGACCTGGTGCCAGAGACGGCTAAGGGCAAGCCAGAGCTGCAGACCTCTGCTTCCCAACAAATGC  
TCAACTTTCTGACAAAGGCAAGAGAAACCAACAGACATGCAAACTTTGGGCTGCGCACAGACATGTACACAA  
AAAAGAATGTTCCCTCCAAGAGCAAGGCTGCAGCCAGTGCCACTCGTGAGTGGACAGAACAGGAACCCCTGCTTC  
TCCTGGAGGCACTGGAAATGTACAAAGATGACTGGAACAAAGTGTCCGAGCATGTGGGAAGCCGCACACAGGACG  
AGTGCACTTGCATTTTTCTTCTGCTTCCCATTTGAAGACCCATACCTGGAGGACTCAGAGGCCTCCCTAGGCCCCC  
TGGCCTACCAACCCATCCCCTTCACTCAGTCGGGCAACCCCTGTTATGAGCACTGTTGCCCTCTCTGGCCTCTGTG  
TCGATCCCCGAGTCGCCTCTGCTGCTGCAAGTACGCCCTAGAGGAGTTCTCCAAATGAAGGAAGGTTACCCA  
CGGCCTTGGTGGAGGCCCATGTTTCGAAAAGTGAAGAAGCAGCCAAAGTAACAGGCAAGGCGGACCTGCCTTCG  
GTCTGGAAGCAGTGGCATTGCAGGAACCACTCTGATGAGCCTGAGCGGATTGAGGAGAGCGGGAATGACGAGG  
CTCGGGTGAAGGCCAGGCCACAGATGAGAAGAAGGAGCCCAAGGAACCCGAGAAGGAGGGGTGCTATAGAGG  
AGGAAGCAAAAGAGAAAACAGCGAGGCTCCCAAGAAGGATGAGGAGAAAGGGAAGAAGGCGACAGTGAGAAGG  
AGTCCGAGAAGAGTGATGGAGACCCAATAGTCGATCCTGAGAAGGAGAAGGAGCCAAAGGAAGGGCAGGAGGAAG  
TGCTGAAGGAAGTGGTGGAGTCTGAGGGGGAAGGAAGACAAAGGTGGAGCGGGACATTGGCGAGGGCAACCTCT  
CCACCGCTGCTGCCCGCCGCTTGGCCGCCGCGCAGTGAAAGCTAAGCACTTGGCTGCTGTTGAGGAAGGAAGA  
TCAAATCTTTGGTGGCCCTGCTGGTGGAGACCCAGATGAAAAGTTGGAGATCAAACCTTCGGCACTTTGAGGAGC  
TGGAGACTATCATGGACCGGGAGCGAGAAGCACTGGAGTATCAGAGGCAGCAGCTCCTGGCCGACAGACAAGCCT  
TCCACATGGAGCAGCTGAAGTATGCGGAGATGAGGGCTCGGCAGCAGCACTTCCAACAGATGCACCAACAGCAGC  
AGCAGCCACCACAGCCCTGCCCCAGGCTCCACGCTATCCCCCAACAGGGGCTGCTGGGCCACCCGAGTCC  
ATGGCTTGGCTGIGGCTCCAGCCTCTGTAGTCCCTGCTCCTGCTGGCAGTGGGGCCCTCCAGGAAGTTTGGGCC  
CTTCTGAACAGATTGGGCAGGCAGGGTCAACTGCAGGGCCACAGCAGCAACCAAGCTGGAGCCCCCAGCCTG  
GGGCAGTCCCACAGGGGTTCCTCCCTGGACCCCATGGCCCTCACCGTTCCCCAACCAACAACTCCTCCCT  
CAATGATGCCAGGGGAGTGCCAGGCAGCGGCACCCAGGCGTGGCGGACCCAGGCACCCCTGCTCCAGACC  
CCACAGCCCCGAGCCAGGCACGGTCACCCCTGTGCCACCTCCACAGTGAGGAGCCAGCCAGACATCTCTCCCC  
TCACCCCTGTGGACATCACGGTTCCAGGAACAGCCCTTCCCCCACTGGGACCCCTCCAGCCTGGAGAGTT  
CATCACTACGTAAGGAAGCTCCTTCCGCCCTCCAAAGCCCTCACCATGCCTAACAGAGGCATGCATTTTTATA

3955/6881

**FIGURE 3645B**

TCAGATTATTCAAGGACTTCTGTTTAAAAGATGTTTATAATGTCTGGGAGAGAGGATAGGATGGGAATGCTGCCC  
TAAAGGAAGGGCTGGTGAAAGGTGTTTATACAAGGTTCTATTAAACCACTTCTAAGGGTACACCTCCCTCCAACT  
ACTGCATTTTCTATGGATTAAAAAAGTAGATTTTAAAAAGCCACATTGGAGCTCCCTTCTACCC  
ACTAAAAATAACCAATTTTACATTTTGTAGGGGAGTGAGTTTATAGGAAAGGGGAATTAAGATTCCAGGGAG  
AGCTCTGGGGATAGAACAGGGCGCAGATTCCATCTCTCCCAAGCCCTTTTATAGTACTAAGTCAAGGCCCAA  
CTCCCTCCCCACCTACGCTGAGCTTATTCGAGTTCATTTCGTAATAATCCCTCCTGCGGCTTCCTCATTG  
TTGCTGTTTTAGGCCACCCAGCTCAGCCAATGATTCCTTCCCTCTGAATGTCAGTTTGTGTTTTAAAGTCAC  
TTGCTTAGTTGATGTCAGCGTATGTGTATTTGGTGGGAAAACCTAATTCGGGGATTCTGTGGTAGGTAATAG  
GAGAAGAAAGGGCACTGGGGGCTGTCTCCTTCCTTCCCTGGGCTGTATCCATGGACTCCTGGAAGGCACAGAGA  
AGGGAGCTATAAGAGGATGTGAAGTTTAAAACCTGAAATTGTTTTTAAAGCACTTAAGCACCTCCATATTATG  
ACTTGGTGGGTACCCCTTAGCTTCCCTCCTCCCAAGACTATGAGAACTTCAGCTGATAGCTGGGGGCTC  
CCCAGATGAGGATGCAGGGATTGGGAGCAGTGGAAGAGGGTGCCCAACCTTGGGTTGGACCAACCCTTGGCTCG  
CAGCTCAACTCTGCTTCCCGCATTCCGCTCCACGTGTCCAGCTTCTCCCTGTGACGGGAAGGCAGGTGTGAC  
TCCAGGCTCTGCACTGGTTCTTCTTGGTTCCCTCCACCAGGCCCTTGTTCCTCATGTCCCATGTTTCTCTCCC  
TCTGCGTCTTAGCACCTTCTTCTGTTCAAAGTTTTCTGTAAATTTCTCTTTTTTCTTTCTTTTCTTTTTT  
TTTTTATAAATTAATTTGCTTTCAGTTCATCTTGTGGGTGCATTCTGTGTTCTTACCTGTGGCTGTGAGGCAGG  
GGGATTGTGATGGGAG

3956/6881

**FIGURE 3646**

ATTACTGCAGGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGAGTT  
CAAGGAGGCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTGATGAG  
GGCCCTGGGCCAGAACCTTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGATGAATGT  
GAAGGTGCTGGACTTTGAGCACTTTCTGCCCATGCTGCAGACAGTGGCCAAGAACAAGGACCAGGGCACCTATGA  
GGATTATGTCGAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGGTGCTGAAATCCGGCATGT  
TCTTGTCACACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGG  
TTGTATCAACTATGAAGCGTTTGTGAGGCATATCCTGTCTGGGGTGACGGGCCCATGGGGCGGAGCTCGTCCGCAT  
GGTGCTGAATGGCTGAGGACCTTCCCAGTCTCCCCAGAGTCCGTGCCTTTCCCTGTGTGAATTTGTATCTAGCC  
TAAAGTTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTGGATGATGTTTGCCGTCAGCAT  
TCACCAAATAAACTTGCTCTCTGGGCCTC

3957/6881

**FIGURE 3647**

MCDFTEDQTAEFKEAFQLFDRTGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEHFLPMLQ  
TVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIRHVLVTLGEKMTEEEVEMLVAGHEDSNGCINYEAFVRHILS  
G

3958/6881  
**FIGURE 3648**

GGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGAGTTCAAGGAGGC  
CTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCAGTGTGGGGATGTGATGAGGGCCCTGGG  
CCAGAACCCTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCCAAGAGTGATGAGATGAATGTGAAGGTGCT  
GGACTTTGAGCACTTTCTGCCCATGCTGCAGACAGTGGCCAAGAACAAGGACCAGGGCACCTATGAGGATTATGT  
CGAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGGTGCTGAAATCCGGCATGTTCTTGTCTCAC  
ACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGGGCATGAGGACAGCAATGGTTGTATCAA  
CTATGAAGAGCTCGTCCGCATGGTGCTGAATGGCTGAGGACCTTCCAGTCTCCCCAGAGTCCGTGCCTTTCCCT  
GTGTGAATTTGTATCTAGCCTAAAGTTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTG  
GATGATGTTTGCCGTCAGCATTACCAAATAAACTTGCTCTCTGGGAAAAA

3959/6881

**FIGURE 3649**

MRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEHFLPMLQTVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIR  
HVLVTLGEKMTTEEEVEMLVAGHEDSNGCINYEELVRMVLNG

3960/6881

**FIGURE 3650**

ATTACTGCAGGAAAAGGTCCCGGAGAGCTGAGCAGTCAAGATGTGTGACTTCACCGAAGACCAGACCGCAGATCT  
GATCCCAAGCACTGAGTTCAAGGAGGCCTTCCAGCTGTTTGACCGAACAGGTGATGGCAAGATCCTGTACAGCCA  
GTGTGGGGATGTGATGAGGGCCCTGGGCCAGAACCTACCAACGCCGAGGTGCTCAAGGTCCTGGGGAACCCAA  
GAGTGATGAGATGAATGTGAAGGTGCTGGACTTTGAGCACTTTCTGCCCATGCTGCAGACAGTGGCCAAGAACAA  
GGACCAGGGCACCTATGAGGATTATGTGCAAGGACTTCGGGTGTTTGACAAGGAAGGAAATGGCACCGTCATGGG  
TGCTGAAATCCGGCATGTTCTTGTACACTGGGTGAGAAGATGACAGAGGAAGAAGTAGAGATGCTGGTGGCAGG  
GCATGAGGACAGCAATGGTTGTATCAACTATGAAGCGTTTGTGAGGCATATCCTGTCGGGGTGAACGGGCCCCATGG  
GGCGAGCTCGTCCGCATGGTGCTGAATGGCTGAGGACCTTCCCAGTCTCCCCAGAGTCCGTGCCCTTCCCTGTGT  
GAATTTTGTATCTAGCCTAAAGTTTCCCTAGGCTTTCTTGTCTCAGCAACTTTCCCATCTTGTCTCTCTTGGATG  
ATGTTTGCCGTCAGCATTACCAAATAAACTTGCTCTCTGGG

3961/6881  
**FIGURE 3651**

MCDFTEDQTADLIPSTEFKEAFQLFDRTIGDGKILYSQCGDVMRALGQNPTNAEVLKVLGNPKSDEMNVKVLDFEH  
FLPMLQTVAKNKDQGTIEDYVEGLRVFDKEGNGTVMGAEIRHVLVTLGEKMTTEEVEMLVAGHEDSNGCINYEAF  
VRHILSG



3962/6881  
**FIGURE 3652**

CCCTCGAGAGCGGCTAGAGTCTGGCGGCCGAGAGGACTAGTTGTCCAGCGTGCCCTGCGCCTCAGCCCGCGCGC  
TCGCAGCTTCTCGCTCTCGCTGCTGCTGCGCTGCCCTGCTTGTCTGCTGCGCTTTCGCTCGCCCTCTCCTCGAGGAT  
CGAGGGGACTCTGACCACAGCCTGTGGCTGGGAAGGGAGACAGAGGCGGCGGCGGCTCAGGGGAAACGAGGCTGC  
AGTGGTGGTAGTAGGAAGATGTCGGGCGAGGACGAGCAACAGGAGCAAACATATCGCTGAGGACCTGGTCGTGACC  
AAGTATAAGATGGGGGGCGACATCGCCAACAGGGTACTTCGGTCCCTTGGTGGAAGCATCTAGCTCAGGTGTGTGCG  
GTACTGAGCCTGTGTGAGAAAGGTGATGCCATGATTATGGAAGAAACAGGGAAAATCTTCAAGAAAGAAAAGGAA  
ATGAAGAAAGGTATTGCTTTTCCACCAGCATTTCGGTAAATAACTGTGTATGTCACTTCTCCCTTTGAAGAGC  
GACCAGGATTATATTCTCAAGGAAGGTGACTTGGTAAAAATTGACCTTGGGGTCCATGTGGATGGCTTCATCGCT  
AATGTAGCTCACACTTTTGTGGTTGATGTAGCTCAGGGGACCCAGTAACAGGGAGGAAAGCAGATGTTATTAAG  
GCAGCTCACCTTTGTGCTGAAGCTGCCCTACGCCTGGTCAAACCTGGAAATCAGAACACACAAGTGACAGAAGCC  
TGGAACAAAGTTGCCCACTCATTAACTGCACGCCAATAGAAGGTATGCTGTACACACAGTTGAAGCAGCATGTC  
ATCGATGGAGAAAAAACATTATCCAGAATCCACAGACCAGCAGAAGTAGGTGCCAACCCCTACTTATTACCTTC  
TACCACACAAGACTAGTCATCAGGTTTTTTTTCTATACTCCCAACTGAATCTTGTCCGCCCTCTACTCCATGTTTT  
CAGGAGTGACCTGTTGCTCTTAATATTCCCTTTCTCTAGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCAC  
TTTGGGAGGCTGAGGCGGGTGGATCACCTGAGGTCACGAGTTCAGAACCAGCCTAACCAACATGGCGAAACCTG  
TCTCTACTAAAAACTACAAAAATGAGCCAGGCCTGGTGGTTTTGTGCCTATAGTCCCAGCTACTTGGGAGGCTGAG  
GCAGGAGAGTTGCTTGGACCCGGGAGGTGGAGGTTGCAGTGAGCTGAGATTGTGCCACTGCCTCCAGCCTGGGT  
GACAGAATGAGACTCTGTGTCGAAGGACCATGAAAAAGCTGAATTTGAGGTACATGAAGTATATGCTGTGGATGT  
TCTCGTCAGCTCAGGAGAGGGCAAGGTGAGGAGAGTACCAGAGTTGGCAAAGAGGGGTGACTGAGAGTGTTACC  
AGACCAATGTTACTTAAATTACTCTTTTCAAGCCAAGGATGCAGGACAGAGAACCCTATTTACAAACGAGACCC  
CTCTAAACAGTATGG

3963/6881

**FIGURE 3653**

MSGEDEQQEQTIAEDLVVTIKYKMGGDIANRVLRLSLVEASSSGVSVLSLCEKGDAMIMEETGKIFKKEKEMKKGIA  
FPTSISVNNCVCHFSPKSDQDYILKEGDLVKIDLGVHVDGFIANVAHTFVVDVAQGTQVTGRKADVIKAAHLCA  
EALRLVKPGNQNTQVTEAWNKVAHSFNCTPIEGMLSHQLKQHVIDGEKTI IQNPTDQQK

3964/6881  
**FIGURE 3654**

ACCCGGCGCTCCATTAAATAGCCGTAGACGGAACCTTCGCCTTTCTCTCGGCCTTAGCGCCATTTTTTTGGAACC  
TCTGCGCCATGAGAGCCAAGTGGAGGAAGAAGCGAATGCGCAGGCTGAAGCGCAAAGAAGAAAGATGAGGCAGA  
GGTCCAAGTAAACCGCTAGCTTGTTGCACCGTGGAGGCCACAGGAGCAGAAACATGGAATGCCAGACGCTGGGGA  
TGCTGGTACAAGTTGTGGGACTGCATGCTACTGTCTAGAGCTTGTCTCAATGGATCTAGAACTTCATCGCCCTCT  
GATCGCCGATCACCTCTGAGACCCACCTTGCTCATAAACAAAATGCCCATGTTGGTCCTCTGCCCTGGACCTGTG  
ACATTCTGGACTATTTCTGTGTTTATTTGTGGCCGAGTGTAAACAACCATATAATAAATCACCTCTCCGCTGTTT  
TAGCTGAAGAATTAAATCAAAAAAAAAA

3965/6881  
**FIGURE 3655**

MRAKWRKKRMRRLLKRRRKMQRSK

3966/6881

**FIGURE 3656**

CCTGTCTCCGGTCCGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTCGTGCCAAAAGGGCCGCGCCA  
CGTGCAGCCTATTCGCTGCACTAACTGTGCCCCGATGCGTGCCCAAGGACAAGGCCATTAAGAAATTCGTCATTG  
AAACATAGTGGAGGCCGAGCAGTCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCT  
GTATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCG  
CAAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGG  
AGCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAATTGTACTTAAAAAAAAA  
AAAAAAAAA

3967/6881

**FIGURE 3657**

MTKKRRNNGRAKKGRGHVQPIRCTNCARCVPKDKAIKKEVIRNIVEAAAVRDI SEASVFDAYVLPKLYVKLHYCV  
SCAIHSKVVRNRSREARKDRTPPPRFRPAGAAPRPPPKPM

3968/6881  
**FIGURE 3658**

CCCCATCCCTTCCCCGGCTCCCCCGGTGTCCGCCATGGCCAAAGCCTACGACCACCTCTTCAAGTTGCTGCTGAT  
CGGGGACTCGGGGGTGGGCAAGACTTGTCTGATCATTTCGCTTTGCAGAGGACAACCTTCAACAACACTTACATCTC  
CACCATCGGAATTGATTTCAAGATCCGCACTGTGGATATAGAGGGGAAGAAGATCAAACCTACAAGTCTGGGACAC  
AGCTGGCCAAGAGCGGTTCAAGACAATAACTACTGCCTACTACCGTGGAGCCATGGGCATTATCCTAGCATACGA  
CATCACGGATGAGAAATCTTTCGAGAATATTTCAGAACTGGATGAAAAGCATCATGGAGAATGCCTCAGCTGGGGT  
GGAGCACCTCTTGCTAGGGAACAAATGTGACATGGAGGCCAAGAGGAAGGTGCAGAAGGAGCAGGCCGATAAGTT  
GGCTCGAGAGCATGGAATCCGATTTTTCGAAACTAGTGCTAAATCCAGTATGAATGTGGATGAGGCTTTTAGTTC  
CCTGGCCCGGGACATCTTGCTCAAGTCAGGAGGCCGGAGATCAGGAAACGGCAACAAGCCTCCCAGTACTGACCT  
GAAAACCTTGTGACATAAAGAACACCAACAAGTGCTCCCTGAGCTGAGGACCCTTTCTTGCTCCCCACCCCGGAA  
GCTGAACCTGAGGGAGACAACAGCAGAGGGAGTGAGCAGGGGAGAAATAGCAGAGGGGCTTGGAGGGACACATAG  
GTAGATGGTAAAGAGAATGAGGAGAAAAAGGAGAAAAGGAAAAGCAGAAAGGAAAAGAAGGAAAAGAGAGGAAG  
GGAGAAGGGAGAGGAATGAATTGAGGAAGTGAACGAAGGCAAGGAGGTAGGAAGAGAGGGAGGAGGAAAGGAAGG  
AGAGATGCCTCAGGCTTCAGACCTTACCTGGGTTTTTCAGGGCAAAACATAAATGTAAATACACTGATTTATTCTGT  
TACTAGATCAGGTTTTAGGGTCCTGCAAAGGGCTAGCTCGGCACTACACTAGGGAATTTGCTCCTGTTCTGTCAC  
TTGTCATGGTCTTTCTTGGTATTAAAGGCCACCATTTGCACAAAAAATAAATAAA

3969/6881  
**FIGURE 3659**

GGAAGCAGGGGCGGGGCTCTGGTGGCGGTTCGGGAACTCGGTGGGAGGCGGCAACATTGTTTCAAGTTGGCCAAA  
TTGACAAGAGCGAGAGGTATACTGCGTTCCATCCCGACCCGGGGCCACGGTACTGGGCCCTGTTTCCCCCTCCTC  
GGCCCCGAGAGCCAGGGTCCGCCCTTCTGCAGGGTTCAGGGCCCCGCTCCAGGGCCGGGCTGACCCGACTCGC  
TGGCGCTTCATGGAGAACTTCCAAAAGGTGGAAAAGATCGGAGAGGGCACGTACGGAGTTGTGTACAAAGCCAGA  
AACAAGTTGACGGGAGAGGTGGTGGCGCTTAAGAAAATCCGCCTGGACACGTGAAGTGAAGGTGTGCCAGTACT  
GCCATCCGAGAGATCTCTCTGCTTAAGGAGCTTAACCATCCTAATATTGTCAAGCTGCTGGATGTCATTACACA  
GAAAATAAACTCTACCTGGTTTTTGAATTTCTGCACCÀAGATCTCAAGAAATTCATGGATGCCTCTGCTCTCACT  
GGCATTCTCTTCCCCCTCATCAAGAGCTATCTGTTCCAGCTGCTCCAGGGCCTAGCTTTCTGCCATTCTCATCGG  
GTCCTCCACCGAGACCTTAAACCTCAGAATCTGCTTATTAAACAGAGGGGGCCATCAAGCTAGCAGACTTTGGA  
CTAGCCAGAGCTTTTGAGTCCCTGTTTCGTACTTACACCCATGAGGTGGTGACCTGTGGTACCGAGCTCCTGAA  
ATCCTCCTGGGCTGCAAATATTATTCCACAGCTGTGGACATCTGGAGCCTGGGCTGCATCTTGTGTGAGATGGTG  
ACTCGCCGGGGCCCTATTCCCTGGAGATTCTGAGATTGACCAGCTCTTCCGGATCTTTCGGACTCTGGGGACCCCA  
GATGAGGTGGTGTGGCCAGGAGTTACTTCTATGCCTGATTACAAGCCAAGTTTCCCCAAGTGGGCCCCGGCAAGAT  
TTTAGTAAAGTTGTACCTCCCCCTGGATGAAGATGGACGGAGCTTGTTATCGCAAATGCTGCACTACGACCCTAAC  
AAGCGGATTTTCGGCCAAGGCAGCCCTGGCTCACCTTTTCTCCAGGATGTGACCAAGCCAGTACCCCATCTTCGA  
CTCTGATAGCCTTCTTGAAGCCCCCAGCCCTAATCTCACCTCTCCTCCAGTGTGGGCTTGACCAGGCTTGGCCT  
TGGGCTATTTGGACTCAGGTGGGCCCTCTGAACCTTGCTTAAACACTCACCTCTAGTCTTGCCAGCCAACTCT  
GGGAATACAGGGGTGAAAGGGGGGAACCAAGTGAAGGAAGTTTTCAGTATTAGATGCACTTAAGTTAGCC  
TCCACCACCTTTCCCCCTTCTCTTAGTTATTGCTGAAGAGGGTTGGTATAAAAAATAATTTAAAAAAGCCTTCC  
TACACGTTAGATTTGCCGTACCAATCTCTGAATGCCCCATAATTATTATTTCCAGTGTTTGGGATGACCAGGATC  
CCAAGCCTCCTGCTGCCACAATGTTTATAAAGGCCAAATGATAGCGGGGGCTAAGTTGGTGCTTTTGAGAACCAA  
GTAAAACAAAACCACTGGGAGGAGTCTATTTTAAAGAATTCGGTTGAAAAAATAGATCCAATCAGTTTATACCT  
AGTTAGTGTTTTGCTCACCTAATAGGCTGGGAGACTGAAGACTCAGCCCGGGTGGGGCTGCAGAAAAATGATTG  
GCCCCAGTCCCCCTGTTTGTCCCTTCTACAGGCATGAGGAATCTGGGAGGCCCTGAGACAGGGATTGTGCTTCAT  
TCCAATCTATTGCTTACCATGGCCTTATGAGGCAGGTGAGAGATGTTTGAATTTTCTCTTCCTTTATGATTTC  
TTAGTTGTTTCAAGGATCCCTGATCCCATTTTCTCTGACGTCCACCTCCTACCCCATAGGAGTTAGAA  
GTTAGGGTTTAGGCATCATTTTGAGAATGCTGACACTTTTTCAGGGCTGTGATTGAGTGAGGGCATGGGTAAAAA  
TATTTCTTTTAAAGAAGGATGAACAATTATTTATATTTCAGGTTATATCCAATAGTAGAGTTGGCTTTTTTTT  
TTTTTTTTTGGTCATAGTGGGTGGATTTGTTGCCATGTGCACCTTGGGGTTTTGTAAATGACAGTGCTAAAAAAA  
AAAGCATTTTTTTTTTATGATTGTCTCTGTACCTTGTCTTGAGTGCTCTTGCTATTAAACGTTATTTGTAAT  
TTAGTTTGTAGCTCATTAAAAAATGTGCCTAGTTTATA



3970/6881

**FIGURE 3660**

ATGGATCTGGTGCTAAAAAGATGCCTTCTTCATTTGGCTGTGATAGGTGCTTTGCTGGCTGTGGGGGCTACAAAA  
GTACCCAGAAACCAGGACTGGCTTGGTGTCTCAAGGCAACTCAGAACCAGGCTGGAACAGGCAGCTGTATCCA  
GAGTGGACAGAAGCCCAGAGACTTACTGTCTGGAGAGGTGGTCAAGTGTCCCTCAAGGTCAGTAATGATGGGCTT  
ACACTGATTGGTGC~~AAATGCCTCCTTCTCTATTGCCTTGA~~ACTTCCCTGGAAGCCAAAAGGTATTGCCAGATGGG  
CAGGTTATCTGGGTCAACAATACCATCATCAATGGGAGCCAGGTGTGGGGAGGACAGCCAGTGTATCCCCAGGAA  
ACTGACGATGCCTGCATCTTCCCTGATGGTGGACCTTGGCCATCTGGCTCTTGGTCTCAGAAGAGAAGCTTTGTT  
TATGTCTGGAAGACCTGGGGCCAATACTGGCAAGTTCAGGGGGCCCAGTGTCTGGGCTGAGCATTGGGACAGGC  
AGGCAATGCTGGGCACACACACCATGGAAGTGACTGTCTACCATCGCCGGGGATCCCGGAGCTATGTGCCTCTT  
GCTCATTCCAGCTCAGCCTTACCATTA~~CTGACCAGGTGCCTTTCTCCGTGAGCGTGTCC~~CAGTTGCGGGCCTTG  
GATGGAGGGGAACAAGCACTTCCCTGAGAAATCAGCCTCTGACCTTTGCCCTCCAGCTCCATGACCCAGTGGCTAT  
CTGGCTGAAGCTGACCTCTCCTACACCTGGGACTTTGGAGACAGTAGTGGAA~~CCCTGATCTCTCGGGCACTTGTG~~  
GTCACTCATACTTACCTGGAGCCTGGCCAGTCACTGCCAGGTGGTCCCTGCAGGCTGCCATTCTCTACCTCC  
TGTGGCTCCTCCCCAGTTCCAGGCACCAAGATGGGCACAGGCCAACTGCAGAGGCCCTAACACCACAGCTGGC  
CAAGTGCCTACTACAGAAGTTGTGGGTACTACACCTGGTCAAGCGCCAACTGCAGAGCCCTCTGGAACCACATCT  
GTGCAGGTGCCAACCCTGAAGTCATAAGCACTGCACCTGTGCAGATGCCAACTGCAGAGAGCACAGGTATGACA  
CCTGAGAAGGTGCCAGTTTCAGAGGTCA~~TGGGTACCACACTGGCAGAGATGTCA~~ACTCCAGAGGCTACAGGTATG  
ACACCTGCAGAGGTATCAATTGTGGTGCCTTCTGGAACCACAGCTGCACAGGTAACA~~ACTACAGAGTGGGTGGAG~~  
ACCACAGCTAGAGAGCTACCTATCCCTGAGCCTGAAGGTCCAGATGCCAGCTCAATCATGTCTACGGAAAGTATT  
ACAGGTTCCCTGGGCCCCCTGCTGGATGGTACAGCCACCTTAAGGCTGGTGAAGAGACAAGTCCCCCTGGATTGT  
GTTCTGTATCGATATGGTTCCTTTTCCGTCACCCTGGACATTGTCCAGGGTATTGAAAGTGCCGAGATCCTGCAG  
GCTGTGCCGTCCGGTGAGGGGGATGCATTTGAGCTGACTGTGTCTGCCAAGGCGGGCTGCCCAAGGAAGCCTGC  
ATGGAGATCTCATCGCCAGGGTGCCAGCCCCCTGCCAGCGGCTGTGCCAGCCTGTGCTACCCAGCCAGCCTGC  
CAGCTGGTTCTGCACCAGATACTGAAGGGTGGCTCGGGGACATACTGCCTCAATGTGTCTCTGGCTGATACCAAC  
AGCCTGGCAGTGGTCAGCACCCAGCTTATCATGCCTGGTCAAGAAGCAGGCCTTGGGCAGGTTCCGCTGATCGTG  
GGCATCTTGCTGGTGTGATGGCTGTGGTCCTTGATCTCTGATATATAGGCGCAGACTTATGAAGCAAGACTTC  
TCCGTACCCCAAGTTGCCACATAGCAGCAGTCACTGGCTGCGTCTACCCCGCATCTTCTGCTCTTGTCCCATTGGT  
GAGAATAGCCCCCTCCTCAGTGGGCAGCAGGTCTGA

3971/6881

**FIGURE 3661**

MDLVLRCLLHLAVIGALLAVGATKVERNQDWLGVSRLRTKAWNRLYPEWTEAQRDCWRGGQVSLKVSNDGP  
TLIGANASFSIALNFFGSQKVLDPGQVIWVNNTIINGSQVWGGQPVYPQETDDACIFPDGGGPCPSGSWSQKRSFV  
YVWKTWQYWQVLGGPVSGLSIGTGRAMLGHTMEVTYHRRGSRSYVPLAHSSSAFTIIDQVPFSVSVSQLRAL  
DGGNKHFLRNQPLTFALQLHDP SGYLA EADLSYTWDFGDSSGTLISRALVVTHTYLEPGPVTAQVVLQAAIPLTS  
CGSSPVPGTTDGHRTAEAPNTTAGQVPTTEVVGTTPGQAPTAEPSTTSVQVPTTEVISTAPVQMPTAESTGMT  
PEKVPVSEVMGTTLAEMSTPEATGMTPAEVSIVVLSGTAAQVTTTEWVETTARELPIPEPEGPDASSIMSTESI  
TGS LGP LLDGTATLRLVKRQVPLDCVLYRYGSFSVTLDIVQGIESAEILQAVPSGEGDAFELTVSCQGGLPKEAC  
MEISSPGCQPPAQRLCQPVLPS PACQLVLHQILKGGSGTYCLNVSLADTNSLAVVSTQLIMPGQEAGLGQVPLIV  
GILLVLMMAVVLASLIYRRRLMKQDFSVPLPHSSSHWLRRLPRIFCSCPIGENSPLLSGQQV

3972/6881  
**FIGURE 3662**

GGCAGCAGAGAAGAAAGTGGTGAAAATTACATCTGAAATACCACAGACTGAGAGAATGCAGAAGAGGGCTGAACG  
ATTCAATGTACCTGTGAGCTTGGAGAGTAAGAAAGCTGCTCGGGCAGCTAGGTTTGGGATTTCTTCAGTTCCAAC  
AAAAGGTCTGTCACTGTGATAACAAACCTATGGTTAACTTGGATAAGCTGAAGGAAAGAGCTCAAAGATTTGGTTT  
GAATGTCTCTTCAATCTCCAGAAAGTCTGAAGATGATGAGAAACTGAAAAAGAGGAAGGAGCGATTTGGGATTGT  
CACAAGTTCAGCTGGAACCTGGAACACAGAGGATACAGAGGCAAAGAAGAGGAAAAGAGCAGAGCGCTTTGGGAT  
TGCCCTGATGAAAAGTTCCTGATACTTTCTGTTCTCCAGTGTTTTCCATTTCTCTCCTTCTTCTTGGTCACATATA  
TGCCCTAAATGCACAGTCATGTGCCTACGTCCTGCCTCGCAATGAGGGAGCATGTACCCAGGTACATCCATGAAC  
TGCGGCAGCAGTTTGACTTATTGCTGTTTCAGCTTTAAGGTTGTTGTGTTTTTGTGTTTTTGATTATGTTGCTTGTT  
AATAAAAAAAAAATAGAAAAG

3973/6881  
**FIGURE 3663**

GGCACGAGGGGCCGGGGGGCGCAGCTAGAGAGCCCCGGAGCCGGCGGGAGAGGAACGCGCAGCCAGCCTTGGG  
AAGCCCAGGCCCCGGCAGCCATGGCGGTGGAAGGAGGAATGAAATGTGTGAAGTTCTTGCTCTACGTCCTCCTGCT  
GGCCTTTTGCGCCTGTGCAGTGGGACTGATTGCCGTGGGTGTCGGGGCACAGCTTGTCTGAGTCAGACCATAAT  
CCAGGGGGCTACCCCTGGCTCTCTGTTGCCAGTGGTCATCATCGCAGTGGGTGTCTTCCTCTTCCTGGTGGCTTT  
TGTGGGCTGCTGCGGGGCTGCAAGGAGAACTATTGTCTTATGATCACGTTTGCCATCTTTCTGTCTTTATCAT  
GTTGGTGGAGGTGGCCGAGCCATTGCTGGCTATGTGTTTAGAGATAAGGTGATGTCAGAGTTTAATAACAATT  
CCGGCAGCAGATGGAGAATTACCCGAAAAACAACCACACTGCTTCGATCCTGGACAGGATGCAGGCAGATTTTAA  
GTGCTGTGGGGCTGCTAACTACACAGATTGGGAGAAAATCCCTTCCATGTCGAAGAACCGAGTCCCGACTCCTG  
CTGCATTAATGTTACTGTGGGCTGTGGGATTAATTTCAACGAGAAGGCGATCCATAAGGAGGGCTGTGTGGAGAA  
GATTGGGGCTGGCTGAGGAAAAATGTGCTGGTGGTAGCTGCAGCAGCCCTTGGAATTGCTTTTGTGAGGTTTT  
GGGAATTGTCTTTGCCTGCTGCCTCGTGAAGAGTATCAGAAGTGGCTACGAGGTGATGTAGGGGTCTGGTCTCCT  
CAGCCTCCTCATCTGGGGGAGTGAATAGTATCCTCCAGGTTTTTCAATTAAACGGATTATTTTTTCAGACCGAA  
AAGAAAAAAAAAAAAAAAAAAAAA

3974/6881

**FIGURE 3664**

MAVEGGMKCVKFLLYVLLLAFCACAVGLIavgvgaQLVLSQTIIQGATPGSLLPVVIIavgVFLFLVAFVGCCGA  
CKENYCLMITFAIFLSLIMLVEVAAAIAGYVFRDKVMSEFNNNFRQQMENYPKNNHTASILDRMQADFKCCGAAN  
YTDWEKIPSMSKNRVPDSCCINVTVGCGINFNEKAIHKEGCVKEKIGGWLrKNVLVAAAAALGIAFVEVLGIVFAC  
CLVKSIRSGYEVm

3975/6881  
**FIGURE 3665**

GGCACGAGGAGCTGTGAGGGTCAAGCACAGCTATCCATCAGATGATCTACTTTACGCCTTCCTGAGTCCCAGACA  
ATAGAAGACAGGTGGCTGTACCCCTTGGCCAAGGGTAGGTGTGGCAGTGGTGTCTGCTGTCACTGTGCCCTCATTG  
GCCCCAGCAATCAGACTCAACAGACGGAGCAACTGCCATCCGAGGCTCCTGAACCAGGGCCATTACACAGGAGC  
ATGCGGCTCCCTGATGTCCAGCTCTGGCTGGTGTCTGTGTGGGCACTGGTGCAGACACAGGGGACAGGGTCTGTG  
TGTCCCTCTGTGGGGGCTCCAAACTGGCACCCCAAGCAGAACGAGCTCTGGTGTGGAGCTAGCCAAGCAGCAA  
ATCCTGGATGGGTGACCTGACCACTGCTCCAGAATAACTCATCTCCACCCAGGCAGCGCTGACCAGAGCC  
CTCCGGAGACTACAGCCAGGGAGTGTGGCTCCAGGGAATGGGGAGGAGGTATCAGCTTTGCTACTGTACAGAC  
TCCACTTCAGCCTACAGCTCCCTGCTCACTTTTACCTGTCCACTCCTCGGTCCCACCACCTGTACCATGCCCGC  
CTGTGGCTGCACGTGCTCCCCACCCTTCCTGGCACTCTTTGCTTGAGGATCTTCCGATGGGGACCAAGGAGGAGG  
CGCCAAGGGTCCCGCACTCTCCTGGCTGAGCACCACATCACCACTGGGCTGGCATACTTAACTCTGCCCTCT  
AGTGGCTTGAGGGGTGAGAAGTCTGGTGTCTGAAACTGCAACTAGACTGCAGACCCCTAGAAGGCAACAGCACA  
GTTACTGGACAACCGAGGCGGCTCTTGGACACAGCAGGACACCAGCAGCCCTTCCTAGAGCTTAAGATCCGAGCC  
AATGAGCCTGGAGCAGGCCGGGCCAGGAGGAGGACCCCACTGTGAGCCTGCGACCCCTTATGTTGAGGCGA  
GACCATTACGTAGACTTCCAGGAAGTGGGATGGCGGGACTGGATACTGCAGCCCGAGGGGTACCAGCTGAATTAC  
TGCAGTGGGCACTGCCCTCCCCACCTGGCTGGCAGCCAGGCATTGCTGCCTCTTTCCATTCTGCCGTCTTCAGC  
CTCCTCAAAGCCAACAATCCTTGGCCTGCCAGTACCTCCTGTTGTGTCCCTACTGCCGAAGGCCCTCTCTCTC  
CTCTACCTGGATCATAATGGCAATGTGGTCAAGACGGATGTGCCAGATATGGTGGTGGAGGCCTGTGGCTGCAGC  
TAGCAAGAGGACCTGGGGCTTTGGAGTGAAGAGACCAAGATGAAGTTTCCAGGCACAGGGCATCTGTGACTGGA  
GGCATCAGATTCTGATCCACACCCCAACCAACAACCACTGGCAATATGACTCACTTGACCCCTATGGGACCC  
AAATGGGCACCTTTCTGTCTGAGACTCTGGCTTATTCCAGGTTGGCTGATGTGTTGGGAGATGGGTAAAGCGTTT  
CTTCTAAAGGGGTCTACCCAGAAAGCATGATTTCTGCCCTAAGTCCTGTGAGAAGATGTCAGGGACTAGGGAGG  
GAGGGAGGGAAGGCAGAGAAAAATTACTTAGCCTCTCCCAAGATGAGAAAGTCCTCAAGTGAGGGGAGGAGGAAG  
CAGATAGATGGTCCAGCAGGCTTGAAGCAGGGTAAGCAGGCTGGCCAGGGTAAGGGCTGTTGAGGTACCTTAAG  
GGAAGGTCAAGAGGGAGATGGGCAAGGCGCTGAGGGAGGATGCTTAGGGGACCCCAAGAAACAGGAGTCAGGAAA  
ATGAGGCACTAAGCCTAAGAAGTCCCTGGTTTTTCCAGGGGACAGGACCCACTGGGAGACAAGCATTATACT  
TTCTTTCTTTCTTTTTTATTTTTTGGAGATCGAGTCTCGCTCTGTACCAGGCTGGAGTGCAGTGACACGATCTTG  
GCTCACTGCAACCTCCGTCTCCTGGGTTCAAGTGATTCTTCTGCCCTCAGCCTCCCGAGCAGCTGGGATTACAGGC  
GCCCCATAATTTTGTATTCTTAGTAGAAACGAGGTTTCAACATGTTGGCCAGGATGGTCTCAATCTCTTGACCT  
CTTGATCCACCCGACTTGGCCTCCCGAAGTGATGAGATTATAGGCGTGAGCCACCGCGCCTGGCTTATACTTTCT  
TAATAAAAAGGAGAAAGAAAATCAACAAATGTGAGTCATAAAGAAGGGTTAGGGTGATGGTCCAGAGCAACAGTT  
CTTCAAGTGTAATCTGTAGGCTTCTGGGAGTCCCTTTTTCAGGGGTGTCCACAAAGTCAAAGCTATTTTCATAAT  
AATACTAACATGTTATTTGCCTTTTGAATTCATTATCTTAAATTTGATTGTGGAGTTTTCCAGAGGCCGTGT  
GACATGTGATTACATCATCTTTCTGACATCATTGTTAAAAA

3976/6881

**FIGURE 3666**

MRLPDVQLWLVLWLVRAQGTGSVCPSCGGSKLAPQAERALVLELAKQQILDGLHLTSRPRI THPPPQAALTRA  
LRRLOPGSVAPGN GEEVISFATVTDST SAYSSLLTFHLSTPRSHHLYHARLWLHVLP TLP GTLCLRIFRWGP RRR  
RQGSRTLLAEHHITNLGWHITLTPSSGLRGEKSGVLKLQDCRPLEGNSTVTGQPRRLDTAGHQPFLELKIRA  
NEPGAGRARRRTPTCEPATPLCCRRDHYVDFQELGWRDWILQPEGYQLNYCSGQC PPHLAGSPGIAASFHSAVFS  
LLKANNPWPASTSCCVPTARRPLSLLYLDHNGNVVKTDV PDMVVEACGCS

3977/6881  
**FIGURE 3667**

CCCAGACTCCAGCCCTGGACCGCGCATCCCAGCCCCAGCGCCAGACAGAGTGTCCCCACACCCTCCTCTGAGAC  
GCCATGTTTCAACTCGATGACCCCAACCAATCAGTAGCTATGGCGAGCCCTGCTGTCTCCGGCCCCCTCCCCAGT  
CAGGGGGCCCCCAGTGTGGGGACAGAAGGA<sup>Δ</sup>TGTCTGGCCCCCCTTCTGCCACCAAGCTAACCTCATGTCCGGC  
CCCCACAGTTATGGGCCAGCCAGAGAGACCAACAGCTGCACCGAGGGGCCACTCTTTTCTTCTCCCCGGAGTGCA  
GTCAAGTTGACCAAGAAGCGGGGCACTGTCCATCTCACCTCTGTTCGGATGCCAGCCTGGACCTGCAGACGGTTATC  
CGCACCTCACCCAGCTCCCTCGTAGCTTTCATCAACTCGCGATGCACATCTCCAGGAGGCTCCTACGGTCATCTC  
TCCATTGGCACCATGAGCCCATCTCTGGGATTCCCAGCCAGATGAATCACC<sup>Δ</sup>AAAGGGCCCCTCGCCTTCCTTT  
GGGGTCCAGCCTTGTGGTCCCCATGACTCTGCCCCGGGTGGGATGATCCCACATCCTCAGTCCCCGGGGACCCCTC  
CCAACCTTGCCAGCTGAAGTCTGAGCTGGACATGCTGGTTGGCAAGTGCCGGGAGGAACCCCTTGGAAAGGTGATATG  
TCCAGCCCCAACTCCACAGGCATACAGGATCCCTGTGGGGATGCTGGATGGGCGGGAGGACCTCGAGAGAGAG  
GAGAAGCGTGAGCCTGAATCTGTGTATGAAACTGACTGCCGTTGGGATGGCTGCAGCCAGGAATTTGACTCCCAA  
GAGCAGCTGGTGCACCACATCAACAGCGAGCACATCCACGGGGAGCGGAAGGAGTTCTGTGTCCACTGGGGGGGC  
TGCTCCAGGGAGCTGAGGCCCTTCAAAGCCCAGTACATGCTGGTGGTTCACATGCGCAGACACACTGGCGAGAAG  
CCACACAAGTGCACGTTTGAAGGGTGCCGGAAGTCATACTCACGCCTCGAAAACCTGAAGACGCACCTGCGGTCA  
CACACGGGTGAGAAGCCATACATGTGTGAGCACGAGGGCTGCAGTAAAGCCTTCAGCAATGCCAGTGACCGAGCC  
AAGCACCAGAATCGGACCCATTCCAATGAGAAGCCGTATGTATGTAAGCTCCCTGGCTGCACCAAACGCTATACA  
GATCCTAGCTCGCTCGGAAAACATGTCAAGACAGTGCATGGTCTGACGCCCATGTGACCAAACGGCACCCTGGG  
GATGGCCCCCTGCCTCGGGCACCATCCATTCTACAGTGGAGCCCCAAGAGGGAGCGGGAAGGAGGTCCCATCAGG  
GAGGAAAGCAGACTGACTGTGCCAGAGGGTGCCATGAAGCCACAGCCAAGCCCTGGGGCCAGTCATCCTGCAGC  
AGTGACCACTCCCCGGCAGGGAGTGCAGCCAATACAGACAGTGGTGTGGAAATGACTGGCAATGCAGGGGGCAGC  
ACTGAAGACCTCTCCAGCTTGACGAGGGACCTTGCAATTGCTGGCACTGGTCTGTCCACTCTTCGCCGCCTTGAG  
AACCTCAGGCTGGACCAGCTACATCAACTCCGGCCAATAGGGACCCGGGGTCTCAAACCTGCCCAGCTTGTCCAC  
ACCGGTACCCTGTGTCCCGCCGCGTGGGCCCCCCAGTCTCTTGAACGCCGAGCAGCAGCTCCAGCAGCATC  
AGCTCTGCCTATACTGTGACCGCCGCTCCTCCCTGGCCTCTCCTTTCCCCCTGGCTCCCCACCAGAGAATGGA  
GCATCCTCCCTGCCTGGCCTTATGCCTGCCAGCACTACCTGCTTCGGGCAAGATATGCTTCAGCCAGAGGGGGT  
GGTACTTCGCCCACTGCAGCATCCAGCCTGGATCGGATAGGTGGTCTTCCCATGCCTCCTTGAGAAGCCGAGCC  
GAGTATCCAGGATACAACCCCAATGCAGGGGTACCCGGAGGGCCAGTGACCCAGCCAGGCTGCTGACCGTCCT  
GCTCCAGCTAGAGTCCAGAGGTTCAAGAGCCTGGGCTGTGTCCATACCCCACTGTGGCAGGGGGAGGACAG  
AACTTTGATCCTTACCTCCCAACCTCTGTCTACTCACACAGCCCCCAGCATCACTGAGAATGCTGCCATGGAT  
GCTAGAGGGCTACAGGAAGAGCCAGAAGTTGGGACCTCCATGGTGGGCAGTGGTCTGAACCCCTATATGGACTTC  
CCACCTACTGATACTCTGGGATATGGGGACCTGAAGGGGCAGCAGCTGAGCCTTATGGAGCGAGGGGTCCAGSC  
TCTCTGCCTCTTGGGCTGGTCCACCCACCAACTATGGCCCCAACCCCTGTCCCCAGCAGGCTCATATCCTGAC  
CCCACCCAAGAAACATGGGGTGAGTTCCCTTCCCACTCTGGGCTGTACCCAGGCCCAAGGCTCTAGGTGGAACC  
TACAGCCAGTGTCTCGACTTGAACATTATGGACAAGTGCAAGTCAAGCCAGAACAGGGGTGCCAGTGGGGTCT  
GACTCCACAGGACTGGCACCTGCCTCAATGCCCACCCAGTGAGGGGCCCCACATCCACAGCCTCTCTTTTCC  
CATTACCCCAAGCCCTCTCCTCCCCAATATCTCCAGTCAGGCCCCATACCCAGCCACCCCTGATTATCTTCT  
TCAGAACCCAGGCCTTGCTGGACTTTGATTCCCCACCCATTCCACAGGGCAGCTCAAGGCTCAGCTTGTGTGT  
AATTATGTTCAATCTCAACAGGAGCTACTGTGGGAGGGTGGGGGCAGGGAAGATGCCCCGCCCAGGAACCTTCC  
TACCAGAGTCCCAAGTTTCTGGGGGGTTCCAGGTTAGCCCAAGCCGTGCTAAAGCTCAGTGAACACATATGGA  
CCTGGCTTTGGACCAACTTGCCCAATCACAAGTCAGGTTCTATCCCAACCCCTTACCATGCCATGAAAATTTT  
GTAGTGGGGGCAAAATAGGGCTTCACATAGGGCAGCAGCACCACTCGACTTCTGCCCCATTGCCCCACTTGCTAT  
GGGCCTCTCAAAGTGGGAGGCACAAACCCAGCTGTGGTCATCCTGAGGTGGGCAGGCTAGGAGGGGGTCTGCC  
TTGTACCCTCCTCCGAAGGACAGGTATGTAACCCCTGACTCTCTTGATCTTGACAACACTCAGCTGGACATT  
GTGGCTATTCTGGATGAGCCCCAGGGGCTGAGTCTCTCTCTTCCATGATCAGCGGGCAGCTCTGGACATACC  
CCACCTCCCTCTGGGCCCCCAACATGGCTGTGGGCAACATGAGTGTCTTACTGAGATCCCTACCTGGGGAAACA  
GAATTCCTCAACTCTAGTGCTTAAAGAGTAGGGAATCTCATCCATCACAGATCGCATTTCTAAGGGGTTTCTAT  
CCTTCCAGAAAAATTGGGGGAGCTGCAGTCCCTTGACAAGATGCCCCAGGGATGGGAGGTATGGGCTGGGGCT  
ATGTATAGTCTGTATACGTTTTGAGGAGAAATTGATAATGACACTGTTTCTGATAATAAAGGAAGTGCATCAG



3978/6881  
**FIGURE 3667A**

3979/6881  
**FIGURE 3668**

MFNSMTPPPISSYGEPCLRLPLPSQGAPSVGTEGLSGPPFCHQANLMSGPHSYGPARETNSCTEGPLFSSPRSAV  
KLTKKRALSI SPLSDASLDLQTVIRTSPSSLVAFINSRCTSPGGSYGHLSIGTMSPSLGFPAQMNHQKGPSPSFG  
VQPCGPHDSARGGMIPHPQSRGPFPTCQLKSELDMLVGKCREEPLEGDMSSPNSTGIQDPLLGLMDGREDLEREE  
KREPESVYETDCRWDGCSQEFDSQEQLVHHINSEHIIHGERKEFVCHWGGCSRELRFKAQYMLVVMRRHTGEKP  
HKCTFEGCRKSYSRLNLKTHLRSHTEKPYMCEHEGCSKAFSNASDRAKHQNRTHSNEKPYVCKLPGCTKRYTD  
PSSLRKHVKTVHGPDAHVTKRHRGDGGLPRAPSIISTVEPKREREKGP IREESRLTVPEGAMKQPSPGAQSSCSS  
DHSPAGSAANTDSGVEMTGNAGGSTEDLSSLDGEPICAGTGLSTLRRLNLRLDQLHQLRP IGTGLKLP SLSHT  
GTTVSRRVGPPVSLERRSSSSSSISSAYTVSRRSSLASPFPPGSPENGASSLPGLMPAQHYLLRARYASARGGG  
TSPTAASSLDRIGGLPMPWPWSRAEYPGYNPNAGVTRRASDPAQAADRPAPARVQRFKSLGCVHTPPTVAGGGQN  
FDPYLPSTSVYSPQPPSITENAAMDARGLQEEPEVGTSVMGSGLNPMDFPPTDTLGYGGPEGAAAEYPGARGPGS  
LPLGPGPPTNYGPNPCPQQASYPDPTQETWGEFPSHSGLYPGPKALGGTYSQCPRLEHYGVQVQKPEQGCPVGS  
STGLAPCLNAHPSEGPPHPQPLFSHYPPQSPPPQYLQSGPYTQPPPDYLPSEPRPCLDFDSTHSTGQLKAQLVCN  
YVQSQQELLWEGGGREDAPAEPSYQSPKFLGGSQVSPSRAKAPVNTYGPFGPNLPNHKSGSYPTPSPCHENFV  
VGANRASHRAAAPRLLPPLPTCYGPLKVGGTNPSCGHPEVGRLLGGGPALYPPEGQVCNPLDSDLDLNTQLDFV  
AILDEPQGLSPPPSHDQRGSSGHTPPPSGPPNMAVGNMSVLLRSLPGETEFLNSSA

3980/6881  
**FIGURE 3669**

ATCAGCGAGGGATTACGGCGAAATGAGACTGTTTCGTGAGTGATGGCGTCCCGGGTTGCTTGCCGGTGCTGGCCG  
CCGCCGGGAGAGCCCCGGGGCAGAGCAGAGGTGCTCATCAGCACTGTAGGCCCGGAAGATTGTGTGGTCCCGTTCC  
TGACCCGGCCTAAGGTCCCTGTCTTGCGAGCTGGATAGCGGCAACTACCTCTTCTCCACTAGTGCAATCTGCCGAT  
ATTTTTTTTTTGTATCTGGCTGGGAGCAAGATGACCTCACTAACCAAGTGGCTGGAATGGGAAGCGACAGAGCTGC  
AGCCAGCTTTGTCTGCTGCCCTGTACTATTTAGTGGTCCAAGGCAAGAAGGGGGAAGATGTTCTTGGTTCAGTG  
GGAGAGCCCTGACTCACATTGACCACAGCTTGAGTCGTCAGAACTGTCCTTTCTGGCTGGGGAGACAGAATCTC  
TAGCCGACATTGTTTTGTGGGGAGCCCTATACCCATTACTGCAAGATCCCGCCTACCTCCCTGAGGAGCTGAGTG  
CCCTGCACAGCTGGTTCCAGACACTGAGTACCCAGGAACCATGTCAGCGAGCTGCAGAGACTGTACTGAAACAGC  
AAGGTGTCTGGCTCTCCGGCCTTACCTCCAAAAGCAGCCCCAGCCCGCTGAGGGAAGGGCTGTCACCA  
ATGAGCCTGAGGAGGAGAGCTGGCTACCCTATCTGAGGAGGAGATTGCTATGGCTGTACTGCTTGGGAGAAGG  
GCCTAGAAAGTTTGGCCCCGCTGCGGCCCCAGCAGAATCCAGTGTTGCCTGTGGCTGGAGAAAGGAATGTGCTCA  
TCACCAAGTCCCTCCCTTACGTCAACAATGTCCCCACCTTGGGAACATCATTGGTTGTGTGCTCAGTGCCGATG  
TCTTTGCCAGTACTCTCGCCTCCGCCAGTGGAAACACCTCTATCTGTGTGGGACAGATGAGTATGGTACAGCAA  
CAGAGACCAAGGCTCTGGAGGAGGGACTAACCCCCAGGAGATCTGCGACAAGTACCACATCATCCATGCTGACA  
TCTACCGCTGGTTTAACATTTCTGTTGATATTTTTGGTTCGACCACTCCACAGCAGACCAAAATCACCAGG  
ACATTTTCCAGCAGTTGCTGAAACGAGGTTTTGTGCTGCAAGATACTGTGGAGCAACTGCGATGTGAGCACTGTG  
CTCGCTTCTGGCTGACCGCTTCGTGGAGGGCGTGTGTCCCTTCTGTGGCTATGAGGAGGCTCGGGGTGACCACT  
GTGACAAGTGTGGCAAGCTCATCAATGCTGTGAGCTTAAGAAGCCTCAGTGTAAGTCTGCCGATCATGCCCTG  
TGGTGCAGTCGAGCCAGCACCTGTTTCTGGACCTGCCTAAGCTGGAGAAGCGACTGGAGGAGTGGTTGGGGAGGA  
CATTGCCTGGCAGTGACTGGACACCCAATGCCAGTTTATCACCCGTTCTTGGCTTCGGGATGGCCTCAAGCCAC  
GCTGCATAACCCGAGACCTCAAATGGGGAACCCCTGTACCCTTAGAAGGTTTGAAGACAAGGTATTCTATGTCT  
GGTTTGATGCCACTATTGGCTATCTGTCCATCACAGCCAACCTACACAGACCAGTGGGAGAGATGGTGGAGAAGC  
CAGAGCAAGTGGACCTGTATCAGTTTATGGCCAAAGACAATGTTTCTTCCATAGCTTAGTCTTCTCTTGCTCAG  
CCCTAGGAGCTGAGGATAACTATACCTTGGTCAGCCACCTCATTGCTACAGAGTACCTGAACTATGAGGATGGGA  
AATTCTCTAAGAGCCCGGTTGTGGGAGTGTGTTGGGGACATGGCCCAGGACACGGGGATCCCTGCTGACATCTGGC  
GCTTCTATCTGCTGTACATTGGCCCTGAGGGCCAGGACAGTGCTTTCTCCTGGACGGACCTGCTGCTGAAGAATA  
ATTCTGAGCTGCTTAACAACCTGGGCAACTTCATCAACAGAGCTGGGATGTTGTGTCTAAGTTCTTTGGGGGCT  
ATGTGCCTGAGATGGTGCTCACCCCTGATGATCAGCGCCTGCTGGCCCATGTCACCCCTGGAGCTCCAGCACTATC  
ACCAGCTACTTGAGAAGGTTCCGATCCGGGATGCCTTGCGCAGTATCCTCACCATATCTCGACATGGCAACCAAT  
ATATTAGGTGAATGAGCCCTGGAAGCGGATTAAAGGCAGTGAGGCTGACAGGCAACGGGCAGGAACAGTGACTG  
GCTTGGCAGTGAATATAGCTGCCTTGCTCTGTCTGTATGCTTCAGCCTTACATGCCCACGGTTAGTGCCACAATCC  
AGGCCCAGCTGCAGCTCCACCTCCAGCCTGCAGTATCCTGCTGACAACTTCTGTGTACCTTACCAGCAGGAC  
ACCAGATTGGCACAGTCAGTCCCTTGTTCAAAAATTGGAAAATGACCAGATTGAAAGTTTAAAGGCAGCGCTTTG  
GAGGGGGCCAGGCAAAAACGTCCTCCGAAGCCAGCAGTTGTAGAGACTGTTACAACAGCCAAGCCACAGCAGATAC  
AAGCGCTGATGGATGAAGTGACAAAACAAGGAAACATTGTCCGAGAACTGAAAGCACAAAAGGCAGACAAGAAGC  
AGGTTGCTGCGGAGGTGGCGAAACTCTTGATCTAAAGAAACAGTTGGCTGTAGCTGAGGGGAAACCCCTGAAG  
CCCCTAAAGGCAAGAAGAAAAAGTAAAGACCTTGGCTCATAGAAAGTCACTTTAATAGATAGGGACAGTAATAA  
ATAAATGTACAATCTCTATA

3981/6881

**FIGURE 3670**

MRLFVSDGVPGLPVLAAAGRARGRAEVLISTVGPEDCVVPFLTRPKVPVLQLDSGNLYFSTSAICRYFFLLSGW  
EQDDLTNQWLEWEATELQPALSAALYYLVVQGGKGEDVLGVSRRALTHIDHSLSRQNCPLAGETESLADIVLWG  
ALYPLLQDPAYLPEELSALHSWFQTLSTQEPQRAAETVLKQQGVLAALRPYLQKQPQPSPAEGRAVTNEPEEEEL  
ATLSEEEIAMAVTAWEGLESPLPLRPQQNPVLPVAGERNVLITSALPYVNNVPHLGNIIGCVLSADVFARYSRL  
RQWNTLYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHADIYRWFNISFDIFGRTTTTQQTKITQDIFQQLLK  
RGFVLQDTVEQLRCEHCARFLADRFVEGVCPFCGYEEARGDQCDKCGKLINAVELKKPQCKVCRSCPVVQSSQHL  
FLDLPKLEKRLEEWLGRITLPGSDWTPNAQFITRSWLRDGLKPRCITRDLKWGTFVPLEGFEDKVIFYVWFDATIGY  
LSITANYTDQWERWWKNPEQVDLYQFMAKDNVPFHSLVFPCSALGAEDNYTLVSHLIATEYLNIEDGKFSKSRGV  
GVFGDMAQDTGIPADIWRFYLLYIRPEGQDSAFSWTDLLLKNNSSELLNNGNFINRAGMFVSKFFGGYVPEMVL  
PDDQRLLAHVTLLELQHYHQLLEKVRIKDALRSILTISRHNQYIQVNEPWKRIKSEADRQRAGTVTGLAVNIAA  
LLSVMLQPYMPTVSATIQALQLPPACSIILLTNFLCTLPAGHQIGTVSPLFQKLENDQIESLRQRFGGGQAQTS  
PKPAVVETVTTAKPQQIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPEAPKGGKKK

3982/6881

**FIGURE 3671**

AGAGACTTAAGTCTAAGGCACTGAGCGTATCATGTAAAGATGAGCGGGTGGCAGCGACAGAGCCAAAATCAGAG  
CTGGAACCTGAGGAGAGAGTGTTCAGAAGGAAGTGTATCTTCATACATCACCACACCTGAAAGCAGGCATCAGA  
CCAGCTTGCCAACTGTGGCATAGACTGTTTGCTACATGGAGCTTGTTCCAGCCACTCCCCATTATCCTGCAGAT  
GTGCTTTTCCAGACTGATCCAACCTGCAGAGATGGCAGCTGAGTCATTGCCTTTCTCCTTCGGGACACTGTCCAGC  
TGGGAGCTGGAAGCCTGGTATGAGGACCTGCAAGAGGTCTGTCTTCAGATGAAAATGGGGGTACCTATGTTTCA  
CCTCCTGGAAATGAAGAGGAAGAATCAAAAATCTTCACCACTCTTGACCTGCTTCTCTGGCTTGGCTGACTGAG  
GAGGAGCCAGAACCAGCAGAGGTCACAAGCACCTCCCAGAGCCCTCACTCTCCAGATTCCAGTCAGAGCTCCCTG  
GCTCAGGAGGAAGAGGAGGAAGACCAAGGGAGAACCAGGAAACGGAAACAGAGTGGTCATTCCCCAGCCCGGGCT  
GGAAAGCAGCGCATGAAGGAGAAAGAACAGGAGAATGAAAGGAAAGTGGCACAGCTAGCTGAAGAGAATGAACGG  
CTCAAGCAGGAAATCGAGCGCCTGACCAGGGAAGTAGAGGCGACTCGCCGAGCTCTGATTGACCGAATGGTGAAT  
CTGCACCAAGCATGAACAATTGGGAGCATCAGTCCCCCACTTGGGCCACACTACCCACCTTTCCCAGAAGTGGCT  
ACTGACTACCCTCTCACTAGTGCCAAATGATGTGACCCTCAATCCCACATACGCAGGGGGAAGGCTTGGAGTAGAC  
AAAAGGAAAGGTCTCAGCTTGTATATAGAGATTGTACATTTATTTATTACTGTCCCTATCTATTAAAGTGACTTT  
CTATGA

3983/6881  
**FIGURE 3672**

ATGCGCGGGAGGCCGCTCGGTGATCCGCGCGCGCGGCAGCGCGCTTCCTGCTAGGACCGGCCGGGGCCGTACCG  
GAGGCTCGGGCTCCACCGACCCTCCTCCACCCCCCTCCCACTCACCCTCTGGGCCGCGACTGCGCAGGGCGGGGC  
CGGCCGAACCATGGGCCGCGGTGTGGGCTAAGCTGGTGGCCCCGGCTTTAGACTGGACCCACAAATGTTTGAGA  
GATGTTACAGGCACGCGGGAGCTGATTACACACAATGAATGGGGGCAATGAGAGCAGTGGAGCAGACAGAGCTGGG  
GGCCCTGTGGCCACATCTGTCCCCATCGGCTGGCAGCGCTGTGTGCGAGAGGGTGTGTGCTCTACATCAGTCCA  
AGTGGCACAGAGCTGTCTTCCTTGGAGCAAACCCGGAGCTACCTCCTCAGCGATGGGACCTGCAAGTGGCGGTCTG  
GAGTGTCCACTTAATGTCCCCAAGGTTTTCAACTTTGACCTTTGGCCCCGGTGACCCCGGGTGGGGCTGGGGTG  
GGGCCAGCATCAGAGGAGGACATGACCAAGCTGTGCAACCACCGCGGAAAGCTGTTGCTATGGCAACTCTGTAC  
CGCAGCATGGAGACCACCTGCTCACACTTCTCCTGGAGAGGGAGCGAGCCCCAAATGTTCCACACTGTGTCC  
CCAGGGCCCCCTCTGCCCCGCCCTCCCTGTGAGTTCTCTACAACCTCCACTTAATGGGGGTCTTGCTCCCTT  
CCCCAGAACCACCTCAGTTTCCCAGGCCTTTCCCACTCTAGCAGGCCCTGGGGGGCTTTTCCCCCAAGGCTT  
GCTGACCCAGTCCCTTCTGGGGGCGAGTAGCAGCCCCGTTTCTCCCAAGGGGCAATGCCCCCTCTCCAGCCCCA  
CCTCCTCCACCTGCTATCAGCCTCAATGCTCCCTCATACAACCTGGGGAGCTGCCCTCAGATCCAGCCTGGTGCCC  
TCTGACCTGGGCTCTCTCCGGCCCCCTCATGCCTCCTCCTCACCACCTTCAGACCTCCTCTCTTCCACTGTAGT  
GATGCCTTAACACCCCCCTCCCCCTGCCCCCGAGCAATAATCTCCCCGCCACCCCTGGTCTGCTCTCAGCCACCA  
GTGTCTTCAGCCACTATGCACCTGCCCCCTGGTCTGGGGGCCCTGGGAGGGGCCCCACGGTGGAGGGGCTGGG  
GCACCCCCCTTCTGTAGCAGCCTACTCTCTGCAGCGGCCAAGGCACAGCATCCCCCACTACCCCTCCAGC  
ACTTTACAGGGCCGAAGGCCCGTGCCAGGCACCTCAGCTTCCCACTCCTCATCACTTCGTCCCTCTCAGCGT  
CGTCCCCGAGACCCCTACTGTATTTGATTGTAGAAAGGGAGAGGCCCTCAAACCCCTAGACGGAGCCGTCTCT  
CGGGCCCTGTCTCTGTCCCCCAACCCTTTTCTCTCCCGAGGCCATCCCAACCAATTTCTCCCTTCTGTGCTGTCC  
CTGCTGGGACTCCCCACCCCTGGCCCTTCCCACTCTGATGGAAGCTTTAACCTTTTGGGGTCAAGTGCACACCTT  
CCTCCTCCCCCAACCCTCTCCTCAGGGAGCCCTCCCCAGCCAGGCACCCCATCCAGCCCTCCCTGCCTGGGACC  
ACCACTGGCAGCCTCAGCAGTGTGCCAGGTGCCCCCTGCCCCACCAGCTGCCTCCAAAGCCCCAGTAGTCCCCAGC  
CCTGTGCTTCAAAGCCCATCCGAAGGACTGGGGATGGGGGCGAGGCCCGGCCCTGCCCTCTGCCTCCCTGGCTGGT  
GGAGAGGCTTTCCCTTTCCCCAGCCCTGAGCAGGGCCTGGCACTGAGTGGAGCTGGCTTCCCTGGGATGCTTGGG  
GCCTTGCTCTCCCTCTGAGTCTGGGGCAGCCTCCACCTTCTCCATTGCTCAACCACAGTTTATTTGGTGTGCTG  
ACTGGGGGAGGAGACAACCTCCCCCTGAGCCCTGCTACCCCCACCAGGAGGACCTGGTCTCCCTAGCCCCA  
GGAGAGCCTGAAGGGCCTTCGCTTTTGGTGGCTTCTTGCTTCTCCACCACCTCAGACCTTCTTCCACCTCCT  
TGAGCACCTCCCAGCAACCTCCTTGCTCTTCTGCCCCCTGTTGGCTCTGGGCCCCACAGCTGGGGATGGGGAG  
GGATCTGCAGAGGGAGCCGGGGGTCCAAGTGGGGAGCCATTTTCAGGCTTGGGAGACCTGTCCCCCTACTTTTC  
CCCCACTTTCAGCCCCCCTACCCTCATAGCTTTAAATCTGCGCTGCTGGCTGCCACCTTGGATCCCCCTCTG  
GGGACACCCCCCAGCCCTGTGTCTGAGTGCCCCCAACCTGGACCACCTACCTCCAGTGTACACAGGCAACT  
ACTGACCCGGGGGCTCCTCTCTGGGCAAGGCCCTTCAAACCTCAGGGAGACCCCCCAACTCCTTAGCCCTCTG  
CTGGGTGCCAGCCTGCTGGGTGACCTGTCTTCACTGACCAGCAGCCCTGGAGCCCTCCCCAGCCTGTTGCAGCCT  
CCTGGCCCTCTTCTCTTGCCAGTTGGGGCTGCAGCTCCTCCCTGGGGGGGAGCTCCTCCACCCCTCTCAGAG  
GCTTCTAGTCCCCTAGCCTGCCTGCTACAGAGTCTCCAGATCCCTCCAGAGCAGCCAGAAGCCCCCTGTCTACCC  
CCGAGAGCCCTGCCTCAGCCCTCGAACCAGAGCCTGCCAGGCCTCCCTCAGTGCCTTAGCCCCACCCCATGGT  
TCTCCGACCCCCCAGTCCCTGAGCTGCTCACTGGGAGGGGTCAGGGAAACGGGGCCGGAGGGGAGGGGGA  
CTTAGGGGCATTAATGGTGAGGCCAGGCCAGCCGGGGGCCGAAAGCCTGGCAGCCGGCGGGAGGCTGGCCGACTG  
GCCCTCAAATGGGGACACGTGGTGGCTTCAATGGACAAATGGAAAGGTCCCCAAGAAGAACCACCATTTGGCAG  
CATAATGGGGAGCTGGCTGAAGGGGGTGTGAGCCCCAAGGATCCACCCCTCCCGGGCCCCATTCTGAGACCTT  
AAGGTGCCCCCGGAGTAGTCAGAAAGTCTCGTCTGGCCGTAGGAGAAAATACAACCTACCCGGAACAGCAAT  
AGCTCCCGCCAGGACATTACCTTGGAACCCAGCCCTACAGCCCGAGCAGCTGTCCCTCTGCCTCCCCGGCCCCGC  
CCTGGCCGTCTGCCAAAACAAGAGGAGGAACTGGCCCCATAGCAGCCATACCTGGAGCTGGATCTGACCCTG  
ATTGGGAGAGCTGAGTGTGAGCCTTGGGAGCCCTGCCAGCCACCTGCACCTGCTGCCCTCCTTCCAGTGAA  
AGAGACGTGTGATGATGCGACTGAGGATTATGCAACGTGGTCCAACCGGAGCGGCCAGCATGACAGCTGTCCA  
GGGGCTGCCTCCTGCCCTTTCTTTTGTAAAGACAAGACCCTTGGGAGTTTTAATCTGTTTTGTACTTGCCCTGT  
GGGGCTCCACTGCTTTTCTATGGGAGACACTCTTAATTTAACAGATGAGAATATTTGAAACTCTG

3984/6881  
**FIGURE 3673**

MEALTFWQMHTFLLPQSPSPQALPSPGTPSSPPCLGPPVAASAVCQVPLPHQLPPKPHVVPSPVLQSPSEGLGM  
GAGPACPLPPLAGGEAFFFPSPEQGLALSGAGFPGMLGALPLPLSLGQPPPSPLLNHSLFGVLTGGGGQPPPEPL  
LPPPGGPGPPLAPGEPEGPSLLVASLLPPPPSDLLPPPSAPPSNLLASFLPLLALGPTAGDGEESAEGAGGPSGE  
PFSGLDLSPLLFPPLSAPPTLIALNSALLAATLDPPSGTTPQPCVLSAPQPGPPTSSVTTATDPGASSLGKAP  
SNSGRPPQLLSPLLGASLLGDLSSLTSSPGALPSLLQPPGPELLSGQLGLQLLPGGGAPPPLSEASSPLACLLQSL  
QIPPEQPEAPCLPPESPASALEPEPARPPLSALAPPHGSDPPVPELLTGRGSGKRGRRGGLRGINGEARPAR  
GRKPGSRREPGRRLALKWGTRGGFNGQMERSPRRTHHWQHNGELAEGGAEPKDP PPPGPHSEDLKVPPGVVRKSRR  
GRRRKYNPTRNSNSSRQDITLEPSPTARGAVPPTTRARPGRPAKNKRRKLTP

3985/6881  
**FIGURE 3674**

GAGACTTCCTGCTCATCTGCCGCTCCCTTTGCCGCCGCTTAGCCCCGGGACCCGAACCCAGCCTCTCCCCTACCC  
GAACACCGGCCCCGGCTCCACCGAGGCCCGGGTCCCCAGCCCGTCTCGCCGCCGCCATGGCGGACCCTAAATAC  
GCCGACCTTCCCGGCATTGCCAGGAATGAGCCAGATGTTTATGAACTAGCGACCTACCTGAGGATGATCAAGCG  
GAGTTCGATGCGXXXXXXXXXXXXXXXXXGAGGAGCTGACAAGCACAAGTGTGGAACACATCATTGTCAATCCTAAT  
GCTGCCATATGACAAGTTCAAGGACAAGAGAGTGGGGACAAAGGGACTTGATTTCTCAGATCGTATTGGAAAAACC  
AAGAGGACAGGATATGAATCTGGAGAATATGAGATGCTTGGAGAGGGTCTGGGAGTGAAGGAGACACCCAGCAA  
AAGTACCAGCGCCTACTGCATGAGGTCCAAGAGCTGACAACTGAAGTTGAAAAAATCAAGACGACAGTGAAGGAG  
TCAGCCACAGAGGAGAAGCTGACCCCTGTGTTGCTGGCTAAACAGCTGGCAGCCCTGAAGCAGCAGCTGGTTGCT  
TCCCACCTGGAGAAGCTGCTGGGACCAGATGCTGCAATCAACCTTACCGACCCCGATGGCGCCCTGGCTAAGCGC  
CTACTACTGCAGCTGGAAGCAACAAAGAACAGCAAAGGGGGATCAGGGGGAAAAACCACTGGGACCCCCCAGAT  
AGCAGCCTTGTCACTTATGAATACATTCTCGGCCTGAGCAGGACAAGTTCTCTCAAGCTGCCAAAGTCGCAGAA  
CTTGAAAAGCGCCTGACAGAGCTGGAGACAGCTGTACGTTGTGATCAGGATGCTCAGAATCCCCTTTCTGCAGGT  
CTACAGGGAGCCTGTCTCATGGAGACTGTAGAGCTGTTGCAAGCAAAGGTGAGCGCCCTAGACCTTGCAGTTTTG  
GATCAAGTGGAGGCTCGGCTACAGAGTGTCTGGGAAAGGTGAACGAGATTGCCAAGCATAAAGCCTCTGTAGAA  
GATGCAGATACACAAAGCAAGGTGCACCAGCTATATGAACTATACAGCGCTGGAGCCCCATTGCCTCCACCCTC  
CCTGAGCTGGTGCAGAGACTTGTCAACATCAAGCAGCTGCACGAGCAAGCCATGCAGTTTGGTCAGCTCCTGACA  
CACTTGGATACCACCCAGCAGATGATTGCTAATTCCTTGAAGGACAATACCACCCTCTTGACCCAGGTGCAGACA  
ACCATGCGTGAAAACCTGGCCACAGTTGAGGGGAACCTTGCCAGCATTGATGAACGGATGAAGAAGCTGGGAAAG  
TGAGCACATTTGGGAGCTGGAGAACAGGGGTATCCCTACCCCTGTGAACTCTGTAAACAGCTTACATAGGGTTT  
CCCCTTTACTATAACTCTAGCATCCCCATCCCATTTGACACTGGGGGCAAGGGTTCTTCTTGCATGTGGGGTTTA  
TACCCCTCCCCTGATGAATACAGAGTGGTAGCTAGGGGTTGGTTATCATCAGAAGGTGGTCTCCCCTCAGGCCCTG  
GGGGATAAGGACGTGGGCCCAGCCACATGCCAACTCATGTCCAATACTGCTTTGCCTGGTGTGGGGAAGGATTGG  
GTCTTGTCCCCAACACAGCTTCTGTGGCTGACTGTAATACTGTACAACCTGTTTCTGACCATTAAATGCTGTTGT  
ACTCTG



3986/6881

**FIGURE 3675**

MLGEG LGVKETPQQKYQRLLHEVQELTTEVEKIKTTVKESATEEKLTVPVLLAKQLAALKQQLVASHLEKLLGPDA  
AINLTDPDGALAKRLLLQLEATKNSKGGSGGKTTGTPPDSSLVTYELHSRPEQDKFSQAAKVAELEKRLTELETA  
VRCDQDAQNPLSAGLQGACLMETVELLQAKVSALDLAVLDQVEARLQSVLGKVNEIAKHKASVEDADTQSKVHQL  
YETIQRWSP IASTLP ELVQRLVTIKQLHEQAMQFGQLLTHLDTTQQMIANS LKDN T TLLTQVQTTMRENLATVEG  
NFASIDERMKKLGK

3987/6881  
**FIGURE 3676**

[illegible]

3988/6881

**FIGURE 3677**

MLEPALATGEELPELTLLTTLLEGPGDKTQPPEEETLSQAPESEEEEQKKALERSMYVLSELVETEKMYVDDLQQ  
IVEGYMATMAAQGVPESLRGRDRIVFGNIQQIYEWHRDYFLQELQRCLKDPDWLAQLFIKHERRLHMYVVYCQNK  
PKSEHVVSSEFGDSYFEELRQQLGHRQLQNDLLIKPVQRIMKYQLLLKDFLKYYNRAGMDTADLEQAVEVMCFVPK  
RCNDMMTLGRLRGFEGKLTAAQKLLGQDTFWVTEPEAGGLSSRGRERRVFLFEQIIIFSEALGGGVRGGTQPGY  
VYKNSIKVSCLGLEGNLQGDPCRFAITSRGPEGGIQRYVLQAADPAISQAWIKHVAQILESQRDFLNALQSPIEY  
QRRESQTNSLGRPRGPGVGSPGRIRLGDQAQGSTHTPINGSLSLSPKGEVARALLPLDKQALGDIPQAPHDS  
PPVSPTPKTPPCQARLAKLDEDEL

3989/6881  
**FIGURE 3678**

TTGCACTCTCCACACCCTTTTCTTTTCGTCCGCTCTTCGCTTATTTCTCCCGCGTCTCCTCTGCATAAGAAGG  
GGAACGAAAGATGCGCGCGGAAACGCTGCTGTCCAGTTTGTAGGACTGCTGCTTCTGGGACTCCTGTTACCCGC  
AAGTCTGACCGGCGGTGTGCGGAGCCTGAACCTGGAGGAGCTGAGTGAGATGCGTTATGGGATCGAGATCCTGCC  
GTTGCCTGTCATGGGAGGGCAGAGCCAATCTTCGGACGTGGTGATTGTCTCCTTAAGTACAAACAGCGCTATGA  
GTGTGCGCTGCCAGCTGGAGCTATTCACTTCCAGCGTGAAAGGGAGGAGGAAACACCTGCTTACCAAGGCCTGG  
GATCCCTGAGTTGTTGAGCCCAATGAGAGATGCTCCCTGCTTGCTGAAGACAAAGGACTGGTGGACATATGAATT  
CTGTTATGGACGCCACATCCAGCAATACCACATGGAAGATTAGAGATCAAAGGTGAAGTCCTCTATCTCGGCTA  
CTACCAATCAGCCTTCGACTGGGATGATGAAACAGCCAAGGCCTCCAAGCAGCATCGTCTTAAACGCTACCACAG  
CCAGACCTATGGCAATGGGTCCAAGTGCAGCTTAATGGGAGGCCCGGGAGGCCGAGGTTTCGGTTCCTCTGTGA  
CGAGGGTGCAGGTATCTCTGGGACTACATCGATCGCGTGAGCAGGCCCTTGCTCTCTTATGTGCTGACCAT  
TCGCACTCCTCGGCTCTGCCCCACCCTCTCTCCGGCCCCCACCAGTGCTGCACCACAGGCCATCCTCTGTCA  
CCCTTCCCTACAGCCTGAGGAGTACATGGCTTACGTTTCAAGGCAAGCCGACTCAAAGCAGTATGGAGATAAAAT  
CATAGAGGAGCTGCAAGATCTAGGCCCCCAAGTGTGGAGTGAGACCAAGTCTGGGGTGGCACCCTAAAGATGGC  
AGGTGCGAGCCCCAGCAAGGATGACAGTAAGGACTCAGATTTCTGGAAGATGCTTAATGAGCCAGAGGACCAGGC  
CCCAGGAGGGGAGGAGGTGCCGGCTGAGGAGCAGGACCCAAGCCCTGAGGCAGCAGATTAGCTTCTGGTGCTCC  
CAATGATTTTTCAGAACAACTGTCAGGTCAAAGTCATTGCAAGCCCTGCGGATTTGATTTCGATTATAGAGGAGCT  
GAAAGGTGGAACAAAAAGGGGAAGCCAAATATAGGCCAAGAGCAGCCTGTGGATGATGCTGCAGAAGTCCCTCA  
GAGGGAACCAGAGAAGGAAAGGGGTGATCCAGAACGGCAGAGAGAGATGGAAGAAGAGGAGGATGAGGATGAGGA  
TGAGGATGAAGATGAGGATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAAGTGAAGGGATCCTGCTTCCGTC  
AGACCGAGACCGGCTCCGTTTCGGAGGTGAAGGCTGGCATGGAGCGGGAAGTGGAGAATCATCCAGGAGACAGA  
GAAAGAGCTGGACCCAGATGGGCTGAAGAAGGAGTCAGAGCGGGATCGGGCAATGCTGGCTCTCACATCCACTCT  
CAACAACTCATCAAAAGACTGGAGGAAAAACAGAGTCCAGAGCTGGTGAAGAAGCACAAGAAAAAGAGGGTTGT  
CCCCAAAAAGCCTCCCCCATCCCCAACCTACAGAGGAGGATCCTGAGCACAGAGTCCGGGTCCGGGTACCAA  
GCTCCGTCTCGGAGGCCCTAATCAGGATCTGACTGTCTCGAGATGAAACGGGAAAAACCCACAGCTGAAACAAAT  
CGAGGGGCTGGTGAAGGAGCTGCTGGAGAGGGAGGGACTCACAGCTGCAGGGAAAAATTGAGATCAAAATTGTCCG  
CCCATGGGCTGAAGGGACTGAAGAGGGTGCACGTTGGCTGACTGATGAGGACACGAGAAACCTCAAGGAGATCTT  
CTTCAATATCTTGGTGCCGGGAGCTGAAGAGGCCAGAAAGAACGCCAGCGGAGAAAGAGCTGGAGAGCAATTA  
CCGCCGGGTGTGGGGCTCTCCAGGTGGGGAGGGCACAGGGGACCTGGACGAATTTGACTTCTGAGACCAACACTA  
CACTTGACCTTCACGGAATCCAGACTCTTCTGAGTGGCTTGCTCTCCTCCACCTCCCACTTGGAAACCC  
TGAGGGCCAAACAGCAGAGTGGAGCTGAGCTGTGGACCTCTCGGGCAACTCTGTGGGTGTGGGGGCCCTGGGTGA  
ATGCTGCTGCCCCCTGCTGGCAGCCACCTTGAGACCTCACGGGCTGTGATATTTGCTCTCCTGAACCTCACTC  
AATCCTCTTCTCTCTCTGTGGCTTTTCTGTATTGTCCCTAATGATAGGATATTCCTGCTGCCTACCTGG  
AGATTCAGTAGGATCTTTTGAGTGGAGGTGGGTAGAGAGAGCAAGGAGGGCAGGACACTTAGCAGGCACTGAGCA  
AGCAGGCCCCCACCCTGCCCTTAGTGATGTTTGGAGTCGTTTACCCTCTTCTATTGAATTGCCTTGGGATTTCT  
TCTCCCTTTCCCTGCCACCCTGTCCCTACAATTTGTGCTTCTGAGTTGAGGAGCCTTACCTCTGTTGCTGAG  
GAAATGGTAGAATGCTGCCTATCACCTCCAGCACAATCCAGCGAAAAAGGTGTGAAGCACCACCATGTTCTTG  
ACAATCAGGTTTCTAAATAAACTGGACCATCA

3990/6881  
**FIGURE 3679**

MAAETLLSSLLGLLLLGLLLPA SLTGGVGS LNLEELSEMRYGIEILPLPVMGGQS QSSDVVIVSSKYKQRYECRL  
PAGAIHFQREEREETPAYQGPGIPELLSPMRDAPCLLTKDWWTYEF CYGRHIQQYH MEDSEIKGEVLYLGYYS  
AFDWDE TAKASKQHRLKRYHSQTYNGSKCDLNGRPREAEVRFLCDEGAGISGDYIDRVDEPLSCSYVLTIRTP  
RLCPHPLLRPPPSAAPQAILCHPSLQPEEY MAYVQRQADSKQYGDKII EELQDLGPQVWSETKSGVAPQKMAGAS  
PTKDDSKDSDFWKMLNEPEDQAPGGEEVPAEEQDPSPEADSASGAPNDFQNNVQVKVIRSPADLIRFIEELKGG  
TKKGKPNIGQE QPVDAAEVPQREPEKERGDPERQREMEEEDEDEDEDEDEDERQLLGEFEKELEGILLPSDRD  
RLRSEVKAGMEREL ENI IQETEKELDPDGLKKESERDRAMLALTSTLNKLIKRL EEKQSP ELVKKHKKRVPKK  
PPSPQPT EEDPEHRVRVRVTKLRLGGPNQDLTVLEMKREN PQLKQIEGLVKELLEREG LTAAGKIEIKIVRPWA  
EGTEEGARWLTD ETRNLKEIFFN ILVPGAEEAQKERQ RQKELESNYRRVWGSPGGEGTGDLDEFDF

3991/6881  
**FIGURE 3680**

GATGAACGGCAGTTACTGGGAGAATTTGAGAAGGAAGTGGAGGGATCCTGCTCCGTCAGACCGAGACCTGCTG  
CCTACCTGGAGATTGAGTAGGATCTTTTGAGTGGAGGTGGGTAGAGAGAGCAAGGAGGGCAGGACACTTAGCAGG  
CACTGAGCAAGCAGGCCCCACCTGCCCTTAGTGATGTTTGGAGTCGTTTTACCCCTCTTCTATTGAATTGCCTTG  
GGATTTCTTCTCCCTTTCCCTGCCACCCCTGTCCCCTACAATTTGTGCTTCTGAGTTGAGGAGCCTTCACCTCT  
GTTGCTGAGGAAATGGTAGAATGCTGCCTATCACCTCCAGCACAAATCCAGTGAAAAAGGTGTGAAGCAGCCACC  
ATGT

3992/6881

**FIGURE 3681**

AATCCAGAGGCAGGGGAGGGACGGTGCAGGCGCAGAGTATTGGGTTTGGCTGGCCTCGATTAAAGAGACAGAAG  
CTGTCGGGGTCTTGGAAGACGGTCCCAATACCCTCCCCCAAGTCTTGGGACCACTTGGGTCCCCAGAGCTGG  
GGAGATGGTTTGTGGCGGCTTTGCCTGCTCCAAGAATGCGCTTTGCGCTCTCAACGTGGTCTACATGCTGGTGAG  
CTTGTTGCTCATTGGAGTGGCTGCTTGGGGCAAGGGCTGGGTCTGGTGTCCAGCATCCACATCATCGGCGGAGT  
CATTGCTGTGGGAGTCTTCCTTCTCCTTATTGCAGTGGCTGGACTGGTGGGTGCTGTCAACCACCACCAAGTCTT  
GCTGTTCTTTTACATGATCATCCTTGGTTTGGTCTTCACTTCCAATTTGTAATCTCTTGCTCATGTCTGGCTAT  
TAACCGAAGCAAACAGACAGATGTCAATGCTTCTTGGTGGGTGATGAGCAACAAGACTCGGGATGAACTGGA  
AAGAAGTTTTGATTGTTGTGGCTTATTCAACCTCACAACTGTATCAACAAGATTATGATTCTGCACTGCAAT  
CTGCAAGAGCCAGAGCCCCACATGCCAGATGTGTGGAGAAAAGTTTCTTAAGCATTAGACGAAGCCCTGAAAT  
CCTAGGGGGTGTGGACTCTTCTTTAGCTTTACAGAGATCCTTGGTGTGGCTAGCAATGAGATTTGGAATCA  
GAAGGATCCTAGAGCCAACCCAGTGCCTTTCTATGAGACTTTGGATCCTTCTGACTTTTCTTCTGCTCTCTTA  
AGCTTTCTCTTCTCCCTTAGGGAATATCTAGGGTCTGTAACCGTTTTGGTTTGAGAAAAAGGAAAGGCCCTTG  
TCACATCCTCTAAAATTGATGGAATAGCAAGACTTTATGCCTTGACATATTTAGTGGGAGCCAGACTATAAGGA  
ATAAAAGGAAAACTTTCTTCTCTCTCCAAGAGGATATGGGAAGCTTCTGTGAGTGCATAGGATGGGGGCTG  
GAGTCATTCTTAGCTGTTTTCCCTTCTCTGTCCATATACTGGATCACCTCAACATACCCTGGTGTGGCTCTAAGG  
GTAAATCAGGGATAGGGCCAAGGAGAAAACAACCAAGAACTCTTTCCTGTAATAAGCAGGATCCAGTTTGAGAAA  
GTTTAGCGAATATAAAAGTAAAGCCATTTAAAAATCTATATTCTTTTTTTTTTTGACACAGAGTCTTGCTCTGT  
TGCCCAGGCTGGAGTGCAATGGCATGATCTCGGCTCACCGCAACCTCTGCCTCCCGGGTTCAAGCGATCCTCCTG  
CCTCAGTCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCACGCCCTGACTAATTTTGTATTTTGTAGTAGAGAC  
AGGGTTTACCATGTTAGTCAGGCTGGTCTCGAAGTCTGACCTCAGGTGATCCACCGCGTTGGCCTCCCAACG  
TGCTGGGATTATAGGCGTGAGCCACCACGCCCCGCTAAAAATCCATATTCAAAGAAGCAATTCAGTTCCTTCT  
AAGCTTTGTGAGTCAAGGGGCTCCACTGACTTCTAGGCCCTGTAATTTAACCAGTCTTTAAGGTTTTGCAGGAA  
AGTCCCTTCTTCCAAGTGGTTTTTCCAAATCGCACAATGGCAAAGCCAAACAGAGGAAGAAACATTAAAAAAA  
AAAAAGACCATTAAAAAAA  
AAAAAAA

3993/6881  
**FIGURE 3682**

MVCGGFACSKNALCALNVVYMLVSLLLIGVAAWGKGLGLVSSIHIIGGVIAVGVFLLLIAGLVGAVNHHQVLL  
FFYMIILGLVFIFQFVISCCLAINRSKQTDVINASWWMSNKTRDELEERSFDCCGLFNLTLYQQDYDFCTAIC  
KSQSPTCQMCGEKFLKHSDEALKILGGVGLFFSFTILGVWLAMRFRNQKDPRANPSAFL



3994/6881  
**FIGURE 3683**

AGCCCTCCCAGTTTCCGCGCGCCTCTTTGGCAGCTGGTCACATGGTGAGGGTGGGGGTGAGGGGGCCTCTCTAGC  
TTGCGGCCTGTGTCTATGGTCGGGCCCTCTGCGTCCAGCTGCTCCGGACCGAGCTCGGGTGTATGGGGCCGTAGG  
AACCGGCTCCGGGGCCCCGATAACGGGCCGCCCCACAGCACCCCGGGCTGGCGTGAGGGTCTCCCTTGATCTGA  
GAATGGCTACCTCTCGATATGAGCCAGTGGCTGAAATTGGTGTGCGGTGCCTATGGGACAGTGTACAAGCCCCGTG  
ATCCCCACAGTGGCCACTTTTGTGGCCCTCAAGAGTGTGAGAGTCCCCAATGGAGGAGGAGGTGGAGGAGGCCCTTC  
CCATCAGCACAGTTTCGTGAGGTGGCTTTACTGAGGCGACTGGAGGCTTTTGAGCATCCCAATGTTGTCCGGCTGA  
TGGACGTCTGTGCCACATCCCGAACTGACCGGGAGATCAAGGTAACCCCTGGTGTGTTGAGCATGTAGACCAGGACC  
TAAGGACATATCTGGACAAGGCACCCCCACCAGGCTTGCCAGCCGAAACGATCAAGGATCTGATGCGCCAGTTTC  
TAAGAGGCCTAGATTTCCCTTCATGCCAATTGCATCGTTACCGAGATCTGAAGCCAGAGAACATTCTGGTGACAA  
GTGGTGGAACAGTCAAGCTGGCTGACTTTGGCCTGGCCAGAATCTACAGCTACCAGATGGCACTTACACCCGTGG  
TTGTTACACTCTGGTACCGAGCTCCCGAAGTTCTTCTGCAGTCCACATATGCAACACCTGTGGACATGTGGAGTG  
TTGGCTGTATCTTTGCAGAGATGTTTCGTGCAAAGCCTCTCTTCTGTGGAACTCTGAAGCCGACCAGTTGGGCA  
AAATCTTTGACCTGATTGGGCTGCCTCCAGAGGATGACTGGCCTCGAGATGTATCCCTGCCCCGTGGAGCCTTTC  
CCCCCAGAGGGCCCCGCCAGTGCAGTCGGTGGTACCTGAGATGGAGGAGTCGGGAGCACAGCTGCTGCTGGAAA  
TGCTGACTTTTAACCCACACAAGCGAATCTCTGCCTTTCGAGCTCTGCAGCACTCTTATCTACATAAGGATGAAG  
GTAATCCGGAGTAGCAATGGAGTGGCTGCCATGGAAGGAAGAAAAGCTGCCATTTCCCTTCTGGACACTGAGAG  
GGCAATCTTTGCCTTTATCTCTGAGGCTATGGAGGGTCTCCTCCATCTTTCTACAGAGATTACTTTGCTGCCTT  
AATGACATTCCCTCCCACCTCTCCTTTTGAGGCTTCTCCTTCTCCTTCCCATTTCTCTACACTAAGGGGTATGT  
TCCCTCTTGTCCTTTCCCTACCTTTATATTTGGGGTCCTTTTTTATACAGGAAAAACAAAACAAAGAAATAATG  
GTCTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3995/6881

**FIGURE 3684**

MATSRYEPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGGGGGLPISTVREVALLRRLEAFEHPNVVRLM  
DVCATSRTDREIKVTLVFEHVDQDLRTYLDKAPPPGLPAETIKDLMRQFLRGLDFLHANCIVHRDLKPENILVTS  
GGTVKLADFGGLARIYSYQMALTPVVVTLWYRAPEVLLQSTYATPDMWSVGCIFAEMFRRKPLFCGNSEADQLGK  
IFDLIGLPPEDDWPRDVSLPRGAFPPRGPRPVQSVPEMEESGAQLLLEMLTFNPHKRISAFRALQHSYLHKDEG  
NPE

3996/6881  
**FIGURE 3685**

AGCCCTCCCAAGTTTCCGCGCGCCTCTTTGGCAGCTGGTCACATGGTGAGGGTGGGGGTGAGGGGGCCTCTCTAGC  
TTGCGGCCCTGTGTCTATGGTCGGGCCCTCTGCGTCCAGCTGCTCCGGACCGAGCTCGGGTGTATGGGGCCGTAGG  
AACCGGCTCCGGGGCCCCGATAACGGGCCGCCCCACAGCACCCCGGGCTGGCGTGAGGGTCTCCCTTGATCTGA  
GAATGGCTACCTCTCGATATGAGCCAGTGGCTGAAATTGGTGTCGGTGCCATATGGGACAGTGACAAGGCCCGTG  
ATCCCCACAGTGGCCACTTTGTGGCCCTCAAGAGTGTGAGAGTCCCCAATGGAGGAGGAGGTGGAGGAGGCCTTC  
CCATCAGCACAGTTCGTGAGGTGGCTTTACTGAGGCGACTGGAGGCTTTTGAGCATCCCAATGTTGTCCGGCTGA  
TGGACGTCTGTGCCACATCCCGAACTGACCGGGAGATCAAGAGATGTTTCGTGAAAGCCTCTCTTCTGTGGAAA  
CTCTGAAGCCGACCAGTTGGGCAAAATCTTTGACCTTGATTGGGCTGCCTCCAGAGGATGACTGGCCTCGAGATGT  
ATCCCTGCCCCGTGGAGCCTTTCCCCCAGAGGGCCCCGCCAGTGCAGTCGGTGGTACCTGAGATGGAGGAGTC  
GGGAGCACAGCTGCTGCTGGAAATGCTGACTTTTAACCCACACAAGCGAATCTCTGCCTTTCGAGCTCTGCAGCA  
CTCTTATCTACATAAGGATGAAGGTAATCCGGAGTGAGCAATGGAGTGGCTGCCATGGAAGGAAGAAAAGCTGCC  
ATTTCCCTTCTGGACACTGAGAGGGCAATCTTTGCCCTTATCTCTGAGGCTATGGAGGGTCCTCCTCCATCTTTC  
TACAGAGATTACTTTGCTGCCTTAATGACATTCCCTCCACCTCTCCTTTTGAGGCTTCTCCTTCTCCTTCCCA  
TTTCTCTACACTAAGGGGTATGTTCCCTCTTGTCCTTTCCCTACCTTTATATTTGGGGTCCTTTTTTATACAGG  
AAAAACAAACAAAGAAATAATGGTCTTTTTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

3997/6881  
**FIGURE 3686**

MATSRYPVAEIGVGAYGTVYKARDPHSGHFVALKSVRPNGGGGGGLPISTVREVALLRRLEAFEHPNVVRLM  
DVCATSRTDREIKRCFVESLSSVETLKPTSWAKSLT

3998/6881  
**FIGURE 3687**

GGGGTTGAGATATGATGCTCAGGAGAAGCGCTTTCTTTTCGCGAGCACCTGAACCAGACCATGACCCAGACCCTC  
AAGTACGCCTCCAGAGTGTTCATCGCGTCCGCTGGGCGCCCCGAGTTGGGCGCCTCCCTAGGCTACCGAGAGTAC  
CACTCAGCACGCCGGAGCTTGGCAGACATCCCAGGCCCTCTACGCCAGCTTTCTGGCCGAACTTTTCTGCAAG  
GGGGGGCTGTGAGGCTACACGAGCTGCAGGTGCAGGGCGCCGCGCACTTCGGGCCGGTGTGGCTAGCCAGCTTT  
GGGACAGTGCACACCGTGTACGTGGCTGCCCTGCACTCGTCGAGGAGCTGCTGCGACAGGAGGGACCCCGGCC  
GAGCGCTGCAGCTTCTCGCCCTGGACGGAGCACCGCCGCTGCCGCCAGCGGGCTTGGGACTGCTCACTGCGGAA  
GGCGAAGAATGGCAAAGGCTCCGAGTCTCCTGGCCCCGCTCCTCCTCCGGCCTCAAGCGGCCGCCCGCTACGCC  
GGAACCTGAACAACGTAGTCTGCGACCTTGTGCGGCGTCTGAGGCGCCAGCGGGGACGTGGCACGGGGCCGCC  
GCCCTGGTTTCGGGACGTGGCGGGGAATTTTACAAGTTTCGGACTGGAAGGCATCGCCGCGGTTCTGCTCGGCTCG  
CGCTTGGGCTGCCTGGAGGCTCAAGTGCCACCCGACACGGAGACCTTCATCCGCGCTGTGGGCTCGGTGTTTGTG  
TCCACGCTGTTGACCATGGCGATGCCCCACTGGCTGCGCCACCTTGTGCTGGGCCCTGGGGCCGCTCTGCCGA  
GACTGGGACCAGATGTTTGCATTTGCTCAGAGGCACGTGGAGCGGCGAGAGGCAGAGGCAGCCATGAGGAACGGA  
GGACAGCCCGAGAAGGACCTGGAGTCTGGGGCGCACCTGACCCACTTCCTGTTCCGGGAAGAGTTGCCTGCCAG  
TCCATCCTGGGAATGTGACAGAGTTGCTATTGGCGGGAGTGGACACGGTGTCCAACACGCTCTCTTGGGCTCTG  
TATGAGCTCTCCCGGCACCCCGAAGTCCAGACAGCACTCCACTCAGAGATCACAGCTGCCCTGAGCCCTGGCTCC  
AGTGCTTACCCCTCAGCCACTGTTCTGTCCAGCTGCCCTGCTGAAGGCGGTGGTCAAGGAAGTGCTAAGACTG  
TACCCTGTGGTACCTGGAAATTCTCGTGTCCAGACAAAGACATTCATGTGGGTGACTATATTATCCCCAAAAAT  
ACGCTGGTCACTCTGTGTCACTATGCCACTTCAAGGGACCTGCCAGTTCCAGAGCCAAATTCTTTTCGTCCA  
GCTCGCTGGCTGGGGGAGGGTCCACCCCCACCCATTGTCATCTCTCCCTTTGGCTTTGGCAAGCGCAGCTGT  
ATGGGGAGACGCCTGGCAGAGCTTGAATTGCAAATGGCTTTGGCCAGATCCTAACACATTTTGAGGTGCAGCCT  
GAGCCAGGTGCGGCCCCAGTTAGACCCAAGACCCGGACTGTCTGGTACCTGAAAGGAGCATCAACCTACAGTTT  
TTGGACAGATAGTATCCCATGGAAAGAGACTGTATCATCACCCCTTTCATTTCATCATAGGGATAAGATTTTTGTAG  
GCACAAGACCAAGGTATACATCTTCCCTAATGCCTATCTGACCAAATGGATAGAACCACCATAGTGAAGTGTG  
AGGCGGCCCTGACCAATGTGTGAAGTATGCACTTGGCCTGACTCAGGAAGCCAGGTGAGAAAACCATGGTCTCTC  
TGCTTGCTTGGCCCTTCTGATCATGTATGCATCCCCAAGGATGAAATCAGATTTTAACTAATAATGCTGGATGG  
CCTGAGGAAAGATTCAACTGCCTCTCTTTTGGGCTTTCATAGTGTTTATTGATGCTGCTGGCTAAGCATTTATC  
AAAGCATAAGCTCAGTAACTGTGCATCTGGTCTGTACCTGGTGGTCTTCGTCTTTGCATGTAAGCTCTTTGAG  
AGGAAGGGTGAAGCCTTATTTGTTTTTATGTCCCTGCCAGGGCCTGTCTCTGACTAGGTGTCACCATAACAT  
TCTTAGATTGAATCTGAACCATGTGGCAGAAGGGATAAGCAGCTTACTTAGTAGGCTCTGTCTACCCCTTCCCT  
CTTTGTCTTGGCCCTAGGAAGGTGAATCTGCCCTAGCCTGGTTTACGGTTTCTTATAACTCTCCTTTGCTCTCTG  
GCCACTATTAAGTGGGTTTGGCCATCACTTAGTTCTCAGGCAGAGACATCTTGGGCCTGTCCCTGCCAGGCC  
CTGGCTTTTATATTGAAAATTTTAAATATTCACAAATTTTAGAATAAATCAAATATTCCATTCTT

3999/6881  
**FIGURE 3688**

MTQTLKYASRVFHRVRWAPELGASLGYREYHSARRSLADIPGPSTPSFLAELFCKGGLSRLHELQVQGAHFQPV  
WLASFGTVRTVYVAAPALVEELLRQEGPRPERCSFSPWTEHRRRCRQRACGLLTAEGEWQRLRSLAPLLLRPQA  
AARYAGTLNNVCDLVRRLRRQRGRGTGPPALVRDVAGEFYKFGLEGIAAVLLGSRLGCLEAQVPPDTETFIRAV  
GSV FVSTLLTMAMPHWLRLVPGPWGRLCRDWDQMFAFAQRHVERREAEAAAMRNGGQPEKDLESGAHLTHFLFRE  
ELPAQSILGNVTELLLAGVDTVSNTLSWALYELSRHPEVQTALHSEITAALSPGSSAYPSATVLSQLPLLKAVVK  
EVLRLYPVVPGNRVPDKDIHVGDYIIPKNTLVILCHYATSRDPAQFPEPNSFRPARWLGEPTPHPFASLPFGF  
GKRSCMGRRLAELELQMALAQILTHFEVQPEPGAAPVRPKTRTVLVPERSINLQFLDR

4000/6881  
**FIGURE 3689**

GGCCTGCGCCTCCACGTGGATTTGGTAGAGAAACCCGGACTGGGATCATGGCAGCCGAGACTCGGAACGTGGCC  
GGAGCAGAGGCCCCACCGCCCCAGAAGCGTACTACCGGCAACGTGCTCACTCCAACCCCATGGCGGACCACACG  
CTGCGCTACCCTGTGAAGCCAGAGGAGATGGACTGGTCTGAGCTATACCCAGAGTTCTTCGCTCCACTCACTCAA  
AATCAGAGCCACGATGACCCAAAGGATAAGAAAGAAAAGAGAGCTCAGGCCCAAGTGGAGTTTGCAGACATAGGC  
TGTGGCTATGGTGGCCTGTTAGTGGAAGTGTACCGCTGTTCAGACACACTTATTCTGGGTCTGGAGATCCGG  
GTGAAGGTCTCAGACTATGTACAAGACCGGATTGGGGCCCTACGCGCAGCTCCTGCAGGTGGCTTCCAGAACATC  
GCCTGTCTCCGTAGCAATGCCATGAAGCACCTTCCTAACTTCTTCTACAAGGGCCAGCTGACAAAGATGTTCTTC  
CTCTCCCCGACCCACATTTCAAGCGGACAAAGCACAAAGTGGCGAATCATCAGTCCCACCCTGCTAGCAGAATAT  
GCCTACGTGCTAAGAGTTGGGGGGCTGGTGTATACCATAACCGATGTGCTGGAGCTACACGACTGGATGTGCACT  
CATTTGAAGAGCACCCACTGTTTGAGCGTGTGCCTCTGGAGGACCTGAGTGAAGACCCCGTTGTGGGACATCTA  
GGCACCTCAACTGAGGAGGGGAAGAAAGTTTACGTAATGGAGGGAAGAATTTCCAGCCATCTTCCGAAGAATA  
CAAGATCCCGTCCTCCAGGCAGTGACCTCCCAAACAGCCTGCCTGGTCACTGACTGCTTACTCTACCTTAGCTG  
GACCTCGTCTCCAGGGATTAGAGAAAAGAGCAGGAGTCCTGGGTCTTCCAGTTGAGACTGCTGGAGCTGAGAC  
ACAGTACTCTCTTAAAGAAGGTGGGGAGCTGCCCAGGGCAGAACCCACTGGTGTTCATGACTACCCCTGGCTCCT  
CTCACCTGTCCCTCCACTGCCAACAGAAAACAAAGCAGCTGACTGAGATGGTCAAAGGACTTTGGACCATAGGG  
GATCTTTGAAGGCTGTGGGGTCTTGCTCTTCCTTAGCACTCCTTTCTCCTTGTGAGATCTCCTCAGCTGGAA  
TGAGGAATGTAGTCCATCTAACTGCTTGCTAGGCTCAATTACCACTTCTGTTTGCTTTGTGGATCCTGGGATAA  
CATGTATAIGTGTACACATGCCTATTCTGCCATTTCTCAGGAAAGGGTGGAGTATGTATCATATGCCTTCTACCA  
TCCTCCTGTCTCTCCCTGCGTAAGACTTGACCTGGGGAATCTGTGTTCCCTAAAAAAAAAAAAAAAAAAAAAA  
AAA

4001/6881  
**FIGURE 3690**

MAAETRVAGAEAPPPQKRYRQRAHSNPMADHTLRYPVKPEEMDWSELYPEFFAPLTQNQSHDDPKDKKEKRAQ  
AQVEFADIGCGYGGLLVELSPLFPDTLILGLEIRVKVSDYVQDRIRALRAAPAGGFQNIACLRSNAMKHLNFFY  
KGQLTKMFFLFDPDPHFRTKHKWRIISPILLAEYAYVLRVGGLVYTITDVLELHDMCTHFEEHPLFERVPLEDL  
SEDPVVGHLGTSTEEGKKVLRNGGKNFPAIFRRIQDPVLQAVTSQTSPLGH



4002/6881  
**FIGURE 3691**

[illegible]

4003/6881  
**FIGURE 3692**

MAAETRVAGAEAPPPQKRYRQRAHSNPMADHTLR

**FIGURE 3693**

[illegible]

4005/6881

**FIGURE 3694**

MAAETRVAGAEAPPPQKRYRQRAHSNPMADHTLRYPVKPEEMDWSELYPEFFAPLTQNQSHDDPKDKKEKRAQ  
AQVEFADIGCGYGGLLADKDVLP LPRPTFQADKAQVANHQSHFPASRICLRKSWGAGVYHNRCAGATRLDVHSFR  
RAPTV

4006/6881  
**FIGURE 3695**

GGGGGGAGGGTGTTTATCGCGGCTAGAGAGATGTCGCTGCTGCGGTGCTGCGCGTGTCTTCTGGTCGCGCGGACC  
GGGAGCTACCCGGCTGGGTCTCTTCTGCGTCAGTCGCCCCAGCCAAGGCACACATTTATGCTGGGCCCCGTCTG  
TCTGCCTCGGCCTCCAGCAAGGAGCTCCTCATGAAGCTGCGGCGGAAAACAGGCTACTCCTTTGTAAATTGCAAG  
AAAGCTCTGGAGACTTGTGGCGGGGACCTCAAACAGGCAGAGATCTGGCTCCACAAGGAGGCCCAGAAGGAGGGC  
TGGAGCAAAGCTGCCAAGCTCCAAGGGAGGAAGACCAAAGAAGGCCTGATTGGGCTGTTGCAGGAAGGAAACACA  
ACTGTATTAGTAGAGGTAAACTGTGAGACAGATTTTGTCTAGAAAATTTAAAATTTCAACTGTTGGTCCAGCAA  
GTAGCCCTTGGAACCATGATGCATTGTCAGACCCTAAAGGATCAACCCTCTGCATACAGTAAAGTGCAGTGGCTC  
ACGCCTGTAAACCTAGCACITTTGGGAGGCTGAAGCAGGTGGATCACTTGAGGGTTTCTTGAATTCCTCTGAGCTT  
TCTGGACTTCCAGCTGGGCCTGACAGAGAAGGCTCACTCAAGGATCAGTTGGCTTTAGCAATTGGAAAACCTGGGA  
GAAAACATGATTCTTAAACGAGCTGCATGGGTGAAGGTGCCATCTGGGTTCTACGTTGGCTCTTATGTCCACGGA  
GCAATGCAGAGTCCCTCACTTCACAAGCTGGTGCTGGGGAAGTATGGGGCCCTGGTCATCTGTGAGACGTCTGAA  
CAGAAAACAAACCTTGAAGACGTTGGCCGCCCTTGGGCAGCATGTGGTGGGCATGGCCCCCTCTCTGTTGGC  
TCCCTGGACGATGAGCCTGGGGGAGAGGCAGAGACTAAGATGCTGTCCCAGCCGTATTTGCTGGATCCCTCCATT  
ACCTTGGGGCAGTATGTGCAGCCTCAGGGGGTGTGCGGTAGTAGACTTTGTGCGGTTTGAATGTGGAGAAGGTGAA  
GAGGCAGCAGAACTGAATAGGTTCCAGAGACTTTTGGCCCAGGAGGAATATTTACTTTTAGCTCTGGACATCAT  
TACAAAAAGGAATATTTCCCAAACCTCTTCAGACCGAGAATGCATGGGTAAAATTATTAAATAGTTGTATAATAA  
AAATAATTTTTTCTTGTGTCACAAAAA

4007/6881  
**FIGURE 3696**

MSLLRSLRVFLVARTGSYPAGSLLRQSPQPRHTFYAGPRLSASASSKELLMKLRRKTGYSFVNCKKALET CGGDL  
KQAEIWLHKEAQKEGWSKAAKLQGRKTKEGLIGLLQEGNTTVLVEVNCETDFVSRNLKFQLLVQQVALGTMHCQ  
TLKDQPSAYS SKVQWLTPVNLALWEAEAGGSLEGFLNSSELSGLPAGPDREGSLKDQLALAIGKLGEMILKRAAW  
VKVP SGFYVGSYVHGAMQSPSLHKLVLGKYGALVICETSEQKTNLEDVGRRLGQHVVGMAPLSVGS LDDEPGGEA  
ETKMLSQPYLLDPSITLGQYVQPQGVSVVDFVRFECGEGEEAAETE